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Program For The National Forests

Estimates of Work Needed and Costs by States
for the Short Term--initial 12 Years

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Forest Service
U. S. Department of Agriculture

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FOREWORD

In response to numerous inquiries, the following tables have been developed to show detailed estimates of work needed and costs by individual States for the short-term period of the "Program for the National Forests." This program was transmitted to Congress by Secretary of Agriculture Ezra Taft Benson, March 24, 1959. Printed copies of the comprehensive program proposal, as well as a brief summary, are available on request from the Forest Service, U. S. Department of Agriculture, Washington 25, D. C.

Financial figures shown here are simply estimates of what it would cost in current dollars to do the work outlined in the program. They are not intended to indicate amounts that may be requested in annual budget recommendations to the Congress. Budget presentations will necessarily consider other factors, such as economic conditions of the country and over-all budgetary needs and financial resources of the Federal Government.

These tables are to be construed merely as indicative of needs as they appear from present conditions. To the extent conditions change and funds available vary from cost estimates, it will be necessary to adjust the program. Under no circumstances are the estimates herein to be considered commitments for work to be done or money to be expended in individual States.

Items are arranged in the manner customarily followed in budgetary presentations. The first column of cost estimates includes items such as timber sales, resource plans, and management and administration of resources, which recur each year throughout the short-term period; the estimate given is the maximum annual level the item will reach during the period. The second column of figures are total estimates covering the entire short-term period for non-recurring types of work to be done only once during the period, such as road-building, tree-planting, building construction, and revegetation.

Following the national summary, the tabulations are arranged alphabetically according to States. The final table is a combination of three States and Puerto Rico which are not given individual treatment because the volume of work therein is relatively minor due to the small acreage administered by the Forest Service. The combined table includes Connecticut, Kansas, New York, and Puerto Rico.

No estimates are included for Delaware, Hawaii, Iowa, Massachusetts, New Jersey, or Rhode Island, because of either the complete absence, or very small amount, of national-forest activity in those States.

NATIONAL FOREST SHORT-TERM PROGRAM--NATIONAL TOTAL

ITEM AND PROJECT	Recurrent Work Maximum Annual Level ($1,000)	Non-Recurrent Work Short-term Program Total ($1,000)	WORK NEEDED
FOREST PROTECTION AND MANAGEMENT			
Timber Resource Management			
Sales Administration and Management	25,200		Develop plans for 8.5 million acres. Keep plans current. Cut 11 billion bd. ft.
Reforestation and Stand Improvement		375,160	10.6 million acres of cultural treatment. Plant 3.9 million acres (including reinforcement and recent burn planting).
Recreation-Public Use	16,300		N.F. Outdoor Recreation Resources Review. Complete management and development plans. Maintenance, sanitation and cleanup of existing facilities.
		122,880	Construct 102,000 family units.
Wildlife Habitat Management	2,980		Management and administration of wildlife resources.
		33,600	Improve 1.9 million acres habitat, 7,000 miles stream, 56,000 acres lakes, 2,000 small watering facilities for wildlife. Rodent control 11.2 million acres.
Range Resource Management			
Management	4,191		Management and administration of range resources.
		11,561	Complete analysis and plans for 10,000 allotments.
Revegetation		30,772	Revegetate 4.4 million acres.
Improvements	1,605		Maintain existing improvements
		26,067	Construct 18,000 miles fence and 9,500 water developments.
Soil and Water Management	1,345		Management and administration of soil and water resources.
		83,320	Watershed rehabilitation on 1.3 million acres, and 22,000 miles of gullies, roads and streams. 160 pollution control structures and 420 flood prevention projects. Soil surveys on 33 million acres. Initiate inventories and water yield studies.
Mineral Claims, Leases and Other Land Uses (including Land Classification and Ownership Adjustments)	4,896		Examine mining claims. Administer mineral leases and special uses. 5,000 miles of property line maintenance. Administer land exchange.
		53,595	Prepare new status records system. Accelerate cadastral surveys. 133,000 miles property line surveys and posting. 224,000 sq. miles topographic mapping.
Land Purchase		1,515	Boundary canoe waters--Superior National Forest--Minnesota--9,000 acres. Small tracts within Cache N.F. - Utah--1,000 acres.
Ranger District Management	11,277		General supervision and management of ranger districts.
Land Utilization Projects	2,110	10,420	Management and development of timber, recreation, range, wildlife, and water resources on 4.6 million acres of LU lands.
Forest Fire Protection	19,313		Intensified protection, including increased manpower and equipment--approximately 2-1/2 times present level.
		73,200	Fuel reduction on 4.2 million acres and 12,000 miles of firebreaks. Construct 1,800 heliports and spots.
Structural Improvements for Fire and General Purpose	7,600		Maintenance of all existing improvements, including radio replacements.
		98,600	Construct 2,700 housing units and related improvements; 3,200 service buildings, lookouts and special structures; betterment of existing structures; 2,000 new radio installations; replace 3,000 miles of telephone lines; construct and reconstruct 62 landing fields.
Insect and Disease Control	9,000		Intensified and accelerated detection, prevention and control of forest insects and diseases to reduce current timber losses.
TOTAL - PROTECTION AND MANAGEMENT	105,817	920,690	
FOREST RESEARCH			
Forest and Range Management Research			
Forest Genetics and Planting	2,510		
Silviculture	3,125		
Timber Growth and Yield	810		
Watershed Management	3,485		
Range Management	1,450		
Recreation and Wildlife	2,455		
			The amounts shown are for recurrent research program of broad regional or national character that relate to national forest problems.
Forest Protection Research			
Forest Fire	2,200		
Forest Insects	2,210		
Forest Disease	1,440		
Forest Products Utilization Research			
Forest Products	5,636		
Forest Engineering	1,700		
Forest Resources Research			
Forest Surveys	470		
Forest Economics	850		
Marketing	1,000		
Construction, Research Facilities		34,354	Construction of 5 experiment station headquarter office-laboratories, 17 specialized laboratories, and 25 research center office-laboratories, minor field laboratories, utility buildings, related facilities and minor structures on about 100 experimental forests and ranges.
TOTAL - RESEARCH PROGRAM	29,341	34,354	
FOREST ROADS AND TRAILS			
Construction		719,600 1/	Construction and reconstruction of 46,000 mi. of roads, 8,000 mi. of trails and assistance in construction of roads by timber purchasers.
Maintenance	20,500 2/		Maintenance of existing roads and trails.
GRAND TOTAL	155,658	1,674,644	

1/ Timber purchasers will construct an additional 44,000 miles of road costing approximately $564 million as the purchasers' share.

2/ Timber purchasers will maintain existing purchaser-constructed roads at an estimated annual cost of $4.5 million.

ITEM AND PROJECT	Recurrent Work Maximum Annual Level ($1,000)	Non-Recurrent Work Short-Term Program Total ($1,000)	WORK NEEDED
FOREST PROTECTION AND MANAGEMENT			
Timber Resource Management			
Sales Administration and Management	247		Develop plans for 51,000 acres. Keep plans current. Cut 65 million bd. ft.
Reforestation and Stand Improvement		2,350	52,000 acres of cultural treatment. Plant 63,000 acres (including reinforcement and recent burn planting).
Recreation-Public Use	27		N. F. Outdoor Recreation Resources Review. Complete management and development plans. Maintenance, sanitation and cleanup of existing facilities.
		227	Construct 200 family units and related facilities.
Wildlife Habitat Management	22		Management and administration of wildlife resources.
		166	Improve 49,000 acres habitat, 20 miles stream, 100 acres lakes, and small watering facilities for wildlife.
Range Resource Management Management	4		Management and administration of range resource.
		22	Complete analysis and plans for 20 allotments.
Revegetation		12	Revegetate 2,000 acres.
Improvements		28	Construct range fences and water developments.
Soil and Water Management	8		Management and administration of soil and water resources.
		360	Watershed rehabilitation on 800 acres and 250 miles of gullies, roads and streams. Soil surveys on 250,000 acres.
Mineral Leases and Other Land Uses (including land classification and ownership adjustments)	51		Administer mineral leases and special uses. Maintain property line posting; administer land exchange.
		737	Prepare new status records system. Accelerate cadastral surveys. 2,000 mi. property line surveys and posting. 800 sq. mi. topographic mapping. Consolidate ownership through purchase of small tracts.
Ranger District Management	110		General supervision and management of ranger districts.
Land Utilization Projects	41	56	Management and development of timber, recreation, range, wildlife and water resources on 11,000 acres of LU lands.
Forest Fire Protection	118		Intensified protection, including increased manpower and equipment--approximately 2-1/2 times present level.
		165	Fuel reduction on 191,000 acres.
Structural Improvements for fire and and General Purpose	73		Maintenance of all existing improvements, including radio replacement.
		499	Construction and betterment of housing units, service buildings, lookouts, special structures, and related improvements; new radio installations; replace substandard telephone lines.
Insect and Disease Control	68		Intensified and accelerated detection, prevention and control of forest insects and disease to reduce current timber losses.
TOTAL - PROTECTION AND MANAGEMENT	769	4,622	
FOREST RESEARCH			
Forest and Range Management Research Silviculture	20		The amounts shown are for recurrent research programs of broad regional or national character that relate to national forest problems and which are headquartered in this state even though some of the work may be carried out in other States.
Forest Products Utilization Research Forest Engineering	50		
TOTAL - RESEARCH PROGRAM	70		
FOREST ROADS AND TRAILS			
Construction		1,900 1/	Construction and reconstruction of 150 miles roads and assistance in construction of roads by timber purchasers.
Maintenance	148 2/		Maintenance of existing roads and trails.
GRAND TOTAL - STATE OF ALABAMA	987	6,522	

1/ Timber purchasers will construct an estimated additional 27 miles of roads costing approximately $150,000 as the purchasers' share.

2/ Timber purchasers will maintain existing purchaser-constructed roads at an estimated annual cost of $2,000.

ITEM AND PROJECT	Recurrent Work Maximum Annual Level ($1,000	Non-Recurrent Work Short Term Program Total ($1,000)	WORK NEEDED
FOREST PROTECTION AND MANAGEMENT			
Timber Resource Management			
Sales Administration & Management	920		Develop plans for 350,000 acres. Keep plans current. Cut 825 million bd. ft.
Recreation-Public Use	242		N.F. Outdoor Recreation Resources Review. Complete management and development plans. Maintenance, sanitation and cleanup of existing facilities.
		1,813	Construct 1,500 family units and related facilities.
Wildlife Habitat Management	311		Management and administration of wildlife resources.
		3,012	Improve 11,000 acres habitat, 550 miles stream, and 10,000 acres lakes. Rodent control 376,000 acres.
Soil and Water Management	30		Management and administration of soil and water resources.
		297	65 miles stream improvement, soil surveys on 1 million acres.
Mineral Claims, Leases and Other Land Uses (including land classification and ownership adjs.)	169		Examine mining claims. Administer mineral leases and special uses. Maintain property line posting.
		370	Prepare new status records system. 100 miles property line surveys and posting.
Forest Fire Protection	32		Intensified protection, including increased manpower and equipment - approximately 2½ times present level.
		297	Fuel reduction on 19,000 acres.
Ranger District Management	113		General supervision and management of ranger districts.
Structural Improvements for Fire and General Purpose	50		Maintenance of all existing improvements, including radio replacement.
		1,243	Construction and betterment of housing units, service buildings, lookouts, special structures and related improvements; new radio installations; replace substandard telephone lines.
Insect and Disease Control	314		Intensified and accelerated detection, prevention and control of forest insects and disease to reduce current timber losses.
TOTAL - PROTECTION AND MANAGEMENT	2,181	7,032	
FOREST RESEARCH			
Forest and Range Management Research			
Forest Genetics and Planting	25		
Silviculture	270		The amounts shown are for recurrent research programs of broad regional or national character that relate to national forest problems and which are headquartered in this state.
Timber Growth and Yields	50		
Watershed Management	100		
Range Management	25		
Recreation and Wildlife	120		
Forest Protection Research			
Forest Fire	80		
Forest Insect	100		
Forest Disease	60		
Forest Products Utilization Research			
Forest Products	110		
Forest Engineering	50		
Forest Resources Research			
Forest Survey	110		
Forest Economics	60		
Marketing	60		
Construction, Research Facilities		976	Laboratory-office and related facilities at 3 locations.
TOTAL - RESEARCH PROGRAM	1,220	976	
FOREST ROADS AND TRAILS			
Construction		21,000 1/	Construction and reconstruction of 270 miles roads and 45 miles trails, and assistance in construction of roads by timber purchasers.
Maintenance	297 2/		Maintenance of existing roads and trails.
GRAND TOTAL - STATE OF ALASKA	3,698	29,008	

1/ Timber purchasers will construct an estimated additional 50 miles of road costing approximately $2 million as the purchasers' share.

2/ Timber purchasers will maintain existing purchaser-constructed roads at an estimated annual cost of $37,000.

ITEM AND PROJECT	Recurrent: Work Maximum Annual Level ($1,000)	Non-Recurrent: Work Short Term Program Total ($1,000)	WORK NEEDED
FOREST PROTECTION AND MANAGEMENT			
Timber Resource Management			
Sales Administration & Management	785		Develop plans for 230,000 acres. Keep plans current. Cut 275 million bd. ft.
Reforestation and Stand Improvement		10,207	516,900 acres of cultural treatment. Plant 21,500 acres (including reinforcement and recent burn planting.
Recreation-Public Use	856		N.F. Outdoor Recreation Resources Review. Complete management and development plans. Maintenance, sanitation and cleanup of existing facilities.
		6,574	Construct 5,600 family units and related facilities.
Wildlife Habitat Management	154		Management and administration of wildlife resources.
		1,256	Improve 120,000 acres habitat, 130 miles stream, 1,800 acres lakes, and small watering facilities for wildlife. Rodent control 360,000 acres.
Range Resource Management Management	423		Management and administration of range resources.
		1,042	Complete analysis and plans for 695 allotments.
Revegetation		5,438	Revegetate 776,000 acres.
Improvements	411		Maintenance of existing improvements.
		4,946	Construct 3,300 miles of fence; 1,600 water developments.
Soil and Water Management	84		Management and administration of soil and water resources.
		10,555	Water rehabilitation on 281,000 acres, and 1,500 miles of gullies, roads and streams. 70 flood prevention projects. Soil surveys on 2.4 million acres. Initiate inventories and water yield studies.
Mineral Claims, Leases and Other Land Uses (Including Land Classification and Ownership adjs.)	356		Examine mining claims. Administer mineral leases and special uses. Maintain property line posting. Administer land exchange.
		2,148	Prepare new status records system. Accelerate cadastral surveys. 4,400 miles property line surveys and posting. 14,000 sq. mi. topographic mapping.
Forest Fire Protection	515		Intensified protection, including increased manpower and equipment -- approximately 2-1/2 times present level.
		3,337	Fuel reduction on 170,000 acres and 1,000 miles of firebreaks. Construct heliports and spots.
Ranger District Management	540		General supervision and management of ranger districts.
Structural Improvements for Fire and General Purpose	334		Maintenance of all existing improvements, including radio replacement.
		4,857	Construct 110 housing units and related improvements; 230 service buildings, lookouts and special structures; betterment of existing structures; new radio installations; replace substandard telephone lines.
Insect and Disease Control	172		Intensified and accelerated detection, prevention and control of forest insects and disease to reduce timber losses.
TOTAL - PROTECTION AND MANAGEMENT	4,630	50,360	
FOREST RESEARCH			
Forest and Range Management Research			
Forest Genetics and Planting	75		
Silviculture	100		
Watershed Management	200		The amounts shown are for recurrent research programs of broad regional or national character that
Range Management	130		relate to national forest problems and which are headquartered in this state even though some of
Recreation and Wildlife	60		the work may be carried out in other states.
Forest Products Utilization Research			
Forest Products	40		
Construction, Research Facilities		420	Laboratory-office and related facilities at 2 locations.
TOTAL - RESEARCH PROGRAM	605	420	
FOREST ROADS AND TRAILS			
Construction		22,200 1/	Construction and reconstruction of 2,400 miles roads and 260 miles of trails, and assistance in construction of roads by timber purchasers.
Maintenance	707 2/		Maintenance of existing roads and trails.
GRAND TOTAL - STATE OF ARIZONA	5,942	72,980	

1/ Timber purchasers will construct an estimated additional 770 miles of road costing approximately $6 million as the purchasers' share.

2/ Timber purchasers will maintain existing purchaser-constructed roads at an estimated annual cost of $115,000.

ITEM AND PROJECT	Recurrent Work Maximum Annual Level ($1,000)	Non-Recurrent Work Short Term Program Total ($1,000)	WORK NEEDED
FOREST PROTECTION AND MANAGEMENT			
Timber Resource Management			
Sales Administration and Mgt.	634		Develop plans for 26,000 acres. Keep plans current. Cut 165 million bd. ft.
Reforestation and Stand Improvement		10,784	392,000 acres of cultural treatment. Plant 176,000 acres (including reinforcement and recent burn planting).
Recreation-Public Use	192		N. F. Outdoor Recreation Resources Review. Complete management and development plans. Maintenance, sanitation and cleanup of existing facilities.
		1,618	Construct 1,400 family units and related facilities.
Wildlife Habitat Management	40		Management and administration of wildlife resources.
		522	Improve 161,000 acres habitat, 80 miles stream, 100 acres lakes, and small watering facilities for wildlife.
Range Resource Management			
Management	17		Management and administration of range resource.
		145	Complete analysis and plans for 167 allotments.
Revegetation		82	Revegetate 11,000 acres.
Improvements	4		Maintain existing improvements.
		175	Construct range fences and water developments.
Soil and Water Management	10		Management and administration of soil and water resources.
		382	Rehabilitate eroded lands and stabilize gullies, roads and streams. Soil surveys on 500,000 acres. Initiate inventories and water yield studies.
Mineral Claims, Leases and Other Land Uses (including land classification and ownership adjs.)	129		Examine mining claims. Administer mineral leases and special uses. Maintain property line posting. Administer land exchange.
		1,388	Prepare new status records system. Accelerate cadastral surveys. 4,000 miles property line surveys and posting. 6,600 sq. mi. topographic mapping. Consolidate ownership through purchase of small tracts.
Ranger District Management	192		General supervision and management of ranger districts.
Forest Fire Protection	319		Intensified protection, including increased manpower and equipment--approximately 2-1/2 times present level.
		323	Fuel reduction on 76,000 acres.
Structural Improvements for Fire and General Purpose	151		Maintenance of all existing improvements, including radio replacement.
		1,011	Construction and betterment of housing units, service buildings, lookouts, special structures and related improvements; new radio installations; replace sub-standard telephone lines.
Insect and Disease Control	47		Intensified and accelerated detection, prevention and control of forest insects and disease to reduce current timber losses.
TOTAL - PROTECTION AND MANAGEMENT	1,735	16,430	
FOREST RESEARCH			
Forest and Range Management Research			The amounts shown are for recurrent research programs of broad regional or national character that relate to national forest problems and which are headquartered in this state even though some of the work may be carried out in other states.
Silviculture	90		
Watershed Management	35		
Recreation and Wildlife	70		
Construction, Research Facilities		57	For laboratory and greenhouse at 1 location.
TOTAL - RESEARCH PROGRAM	195	57	
FOREST ROADS AND TRAILS			
Construction		6,500 1/	Construction and reconstruction of 400 miles road and assistance in construction of roads by timber purchasers.
Maintenance	484 2/		Maintenance of existing roads and trails.
GRAND TOTAL - STATE OF ARKANSAS	2,414	22,987	

1/ Timber purchasers will construct an estimated additional 130 miles of road costing approximately $1.2 million as the purchasers' share.

2/ Timber purchasers will maintain existing purchaser-constructed roads at an estimated annual cost of $5,000.

ITEM AND PROJECT	Recurrent Work Maximum Annual Level ($1,000)	Non-Recurrent Work Short-Term Program Total ($1,000)	WORK NEEDED
FOREST PROTECTION AND MANAGEMENT			
Timber Resource Management			
Sales Administration & Management	3,313		Develop plans for 848,000 acres. Keep plans current. Cut 1.5 billion bd. ft.
Reforestation and Stand Improvement		74,335	872,000 acres of cultural treatment. Plant 952,000 acres (including reinforcement and recent burn planting).
Recreation-Public Use	3,479		N.F. Outdoor Recreation Resources Review. Complete management and development plans. Maintenance, sanitation and cleanup of existing facilities.
		25,682	Construct 21,800 family units and related facilities.
Wildlife Habitat Management	332		Management and administration of wildlife resources.
		4,921	Improve 82,000 acres habitat, 416 miles of stream, 1,252 acres lakes. Rodent control 4.5 million acres. Develop small watering facilities for wildlife.
Range Resource Management			
Management	455		Management and administration of range resources.
		1,250	Complete analysis and plans for 1,000 allotments.
Revegetation		3,499	Revegetate 500,000 acres.
Improvements	96		Maintain existing improvements.
		1,653	Construct 1,100 miles fence; 800 water developments.
Soil and Water Management	207		Management and administration of soil and water resources.
		5,896	Watershed rehabilitation on 27,000 acres and 1900 miles of gullies, roads and streams. 200 flood prevention projects. Soil surveys on 4 million acres. Initiate inventories and water yield studies.
Mineral Claims, Leases and Other Land Uses (including land classification and ownership adjs.)	694		Examine mining claims. Administer mineral leases and special uses. Maintain property line posting. Administer land exchange.
		3,651	Prepare new status records system. 1,800 miles of property line surveys and posting. 4,600 sq. mi. topographic mapping.
Ranger District Management	1,443		General supervision and management of ranger districts.
Land Utilization Projects	9	13	Management and development of timber, recreation, range, wildlife and water resources on 19,000 acres of L.U. lands.
Forest Fire Protection	6,797		Intensified protection, including increased manpower and equipment -- approximately 2-1/2 times present level.
		18,585	Fuel reduction on 367,000 acres and 4,300 miles of firebreaks. Construct 500 heliports and spots.
Structural Improvements for Fire and General Purpose	1,208		Maintenance of all existing improvements, including radio replacement.
		20,760	Construct 700 housing units and related improvements; 540 service buildings, lookouts and special structures; betterment of existing structures; new radio installations; replace substandard telephone lines; construct and reconstruct 13 landing fields.
Insect and Disease Control	1,196		Intensified and accelerated detection, prevention and control of forest insects and disease to reduce current timber losses.
TOTAL - PROTECTION AND MANAGEMENT	19,229	160,245	
FOREST RESEARCH			
Forest and Range Management Research			
Forest Genetics and Planting	390		
Silviculture	325		
Timber Growth and Yields	100		
Watershed Management	505		The amounts shown are for recurrent research programs of broad regional or national character that relate to national forest problems and which are headquartered in this state even though some of the work may be carried out in other states.
Range Management	200		
Recreation and Wildlife	350		
Forest Protection Research			
Forest Fire	580		
Forest Insect	160		
Forest Disease	140		
Forest Products Utilization Research			
Forest Products	165		
Forest Engineering	200		
Forest Resources Research			
Forest Surveys	50		
Forest Economics	120		
Marketing	110		
Construction, Research Facilities		3,009	Includes a major forest soils and hydrology laboratory, a major fire laboratory, office-laboratory building at 3 other locations, and related research facilities.
TOTAL - RESEARCH PROGRAM	3,395	3,009	
FOREST ROADS AND TRAILS			
Construction		76,535 1/	Construction and reconstruction of 3,000 miles roads and 1,100 miles of trail and assistance in construction of roads by timber purchasers.
Maintenance	3,215 2/		Maintenance of existing roads and trails.
GRAND TOTAL - STATE OF CALIFORNIA	25,839	239,789	

1/ Timber purchasers will construct an estimated additional 7,900 miles of road costing approximately $92 million as the purchasers' share.

2/ Timber purchasers will maintain existing purchaser-constructed roads at an estimated annual cost of $1 million.

ITEM AND PROJECT	Recurrent Work Maximum Annual Level ($1,000)	Non-Recurrent Work Short Term Program Total ($1,000)	WORK NEEDED
FOREST PROTECTION AND MANAGEMENT			
Timber Resource Management			
Sales Administration and Management	616		Develop plans for 628,000 acres. Keep plans current. Cut 200 million bd. ft.
Reforestation and Stand Improvement		17,639	577,000 acres of cultural treatment. Plant 175,000 acres (including reinforcement and recent burn planting).
Recreation-Public Use	1,373		N.F. Outdoor Recreation Resources Review. Complete management and development plans. Maintenance, sanitation and cleanup of existing facilities.
		10,570	Construct 9,000 family units and related facilities.
Wildlife Habitat Management	222		Management and administration of wildlife resources.
		2,145	Improve 29,000 acres habitat, 740 miles stream, 1,300 acres lakes, small watering facilities for wildlife. Rodent control 1.5 million acres.
Range Resource Management			
Management	499		Management and administration of range resources.
		1,060	Complete analysis and plans for 1,595 allotments.
Revegetation		1,531	Revegetate 219,000 acres.
Improvements	136		Maintain existing improvements.
		1,911	Construct 1,300 miles fence, 600 water developments.
Soil and Water Management	133		Management and administration of soil and water resources.
		8,811	Watershed rehabilitation on 173,000 acres and 2,000 miles of gullies, roads and streams. 10 flood prevention projects. Soil surveys on 3 million acres. Initiate inventories and water yield studies.
Mineral Claims, Leases and Other Land Uses (including land classification and ownership adjustments)	321		Examine mining claims. Administer mineral leases and special uses. Maintain property line posting. Administer land exchange.
		4,211	Prepare new status records system. Accelerate cadastral surveys. 8,800 miles property line surveys and posting. 27,000 sq. mi. topographic mapping.
Ranger District Management	813		General supervision and management of ranger districts.
Land Utilization Projects	281	1,076	Management and development of timber, recreation, range, wildlife and water resources on 636,000 acres of LU lands.
Forest Fire Protection	211		Intensified protection, including increased manpower and equipment--approximately 2-1/2 times present level.
		967	Fuel reduction on 5,400 acres. Construct heliports and spots.
Structural Improvements for Fire and General Purpose	286		Maintenance of all existing improvements, including radio replacement.
		3,226	Construct 100 housing units and related improvements; 85 service buildings, lookouts and special structures; betterment of existing structures; new radio installations; replace sub-standard telephone lines.
Insect and Disease Control	404		Intensified and accelerated detection, prevention and control of forest insects and disease to reduce current timber losses.
TOTAL - PROTECTION AND MANAGEMENT	5,295	53,147	
FOREST RESEARCH			
Forest and Range Management Research			
Forest Genetics and Planting	50		
Silviculture	125		The amounts shown are for recurrent research programs of broad regional or national character that relate to national forest problems and which are headquartered in this state even though some of the work may be carried out in other states.
Timber Growth and Yields	75		
Watershed Management	350		
Range Management	100		
Recreation and Wildlife	230		
Forest Protection Research			
Forest Fire	40		
Forest Insect	160		
Forest Disease	90		
Forest Products Utilization Research			
Forest Products	140		
Forest Engineering	100		
Forest Resources Research			
Forest Surveys	40		
Forest Economics	120		
Marketing	130		
Construction, Research Facilities		2,003	Includes regional station headquarter office-laboratory, major snow and hydrology laboratory, office-laboratory buildings at 2 other locations, and related facilities.
TOTAL - RESEARCH PROGRAM	1,750	2,003	
FOREST ROADS AND TRAILS			
Construction		32,600 1/	Construction and reconstruction of 3100 miles roads, 660 miles trails, and assistance in construction of roads by timber purchasers.
Maintenance	915 2/		Maintenance of existing roads and trails.
GRAND TOTAL - STATE OF COLORADO	7,960	87,750	

1/ Timber purchasers will construct an estimated additional 625 miles of road costing approximately $6 million as the purchasers' share.

2/ Timber purchasers will maintain existing purchaser-constructed roads at an estimated annual cost of $64,000.

ITEM AND PROJECT	Recurrent Work Maximum Annual Level ($1,000)	Non-Recurrent Work Short Term Program Total ($1,000)	WORK NEEDED
FOREST PROTECTION AND MANAGEMENT			
Timber Resource Management			
Sales Administration and Mgmt.	247		Develop plans for 182,000 acres. Keep plans current. Cut 70 million bd. ft.
Reforestation and Stand Improvement		1,465	27,000 acres of cultural treatment. Plant 35,000 acres (including reinforcement and recent burn planting.
Recreation-Public Use	143		N.F. Outdoor Recreation Resources Review. Complete management and development plans. Maintenance, sanitation and cleanup of existing facilities.
		1,203	Construct 1000 family units and related facilities.
Wildlife Habitat Management	20		Management and administration of wildlife resources.
		338	Improve 109,000 acres habitat, 250 acres lakes, and small watering facilities for wildlife
Range Resource Management			
Management	7		Management and administration of range resources.
		90	Complete analysis and plans for 105 allotments.
Revegetation		50	Revegetate 7,000 acres.
Improvements	3		Maintenance of existing improvements.
		104	Construct range fences and water developments.
Soil and Water Management	4		Management and administration of soil and water resources.
		95	Rehabilitate eroded lands and stabilize gullies, roads and streams. Soil surveys on 100,000 acres. Initiate inventories and water yield studies.
Mineral Leases and Other Land Uses (including land classification and ownership adjs.)	40		Administer mineral leases and special uses. Maintain property line postings.
		486	Prepare new status records system. Accelerate cadastral surveys. 1000 miles property line surveys and posting. Administer land exchange. Consolidate ownership through purchase of small tracts.
Ranger District Management	100		General supervision and management of ranger districts.
Forest Fire Protection	221		Intensified protection, including increased manpower and equipment - approximately 2½ times present level.
		365	Fuel reduction 945,000 acres.
Structural Improvements for Fire and General Purpose	87		Maintenance of all existing improvements, including radio replacement.
		464	Construction and betterment of housing units, service buildings, lookouts, special structures and related improvements, new radio installations; replace substandard telephone lines.
Insect and Disease Control	66		Intensified and accelerated detection, prevention and control of forest insects and disease to reduce current timber losses.
TOTAL - PROTECTION AND MANAGEMENT	938	4,660	
FOREST RESEARCH			
Forest and Range Mgmt. Research			The amounts shown are for recurrent research programs of broad regional or national character that relate to national forest problems and which are headquartered in this state even though some of the work may be carried out in other states.
Forest Genetics and Planting	100		
Silviculture	25		
Forest Protection Research			
Forest Insect	50		
Construction, Research Facilities		75	Replace and improve research utility buildings at one location.
TOTAL - RESEARCH PROGRAM	175	75	
FOREST ROADS AND TRAILS			
Construction		3,000 1/	Construction and reconstruction of 135 miles roads, and assistance in construction of roads by timber purchasers.
Maintenance	277 2/		Maintenance of existing roads and trails.
GRAND TOTAL - STATE OF FLORIDA	1,390	7,735	

1/ Timber purchasers will construct additional roads costing approximately $200,000 as the purchasers' share.

2/ Timber purchasers will maintain existing purchaser-constructed roads at an estimated annual cost cost of $1,000.

ITEM AND PROJECT	Recurrent Work Maximum Annual Level ($1,000)	Non-Recurrent: Work Short Term Program Total ($1,000)	WORK NEEDED
FOREST PROTECTION AND MANAGEMENT			
Timber Resource Management			
Sales Administration & Management	183		Keep plans current. Cut 40 million board feet.
Reforestation and Stand Improvement		3,121	126,000 acres of cultural treatment. Plant 33,000 acres (including reinforcement and recent burn planting).
Recreation-Public Use	148		N.F. Outdoor Recreation Resources Review. Complete management and development plans. Maintenance, sanitation and cleanup of existing facilities.
		1,243	Construct 1,000 family units and related facilities.
Wildlife Habitat Management	30		Management and administration of wildlife resources.
		258	Improve 49,000 acres habitat, 150 miles stream, 25 acres lakes.
Range Resource Management Management	1		Management and administration of range resource.
Soil and Water Management	5		Management and administration of soil and water resource.
		195	Rehabilitate eroded lands and stabilize gullies, roads and streams. Soil surveys on 400,000 acres. Initiate inventories and water yield studies.
Mineral Leases and Other Land Uses (including land classification and ownership adjs.)	16		Administer mineral leases and special uses. Maintain property line posting. Administer land exchange.
		490	Prepare new status records system. Accelerate cadastral surveys. 2,000 miles property line surveys and posting. 2,100 square miles topographic mapping. Consolidate ownership through purchase of small tracts.
Ranger District Management	90		General supervision and management of ranger districts.
Land Utilization Projects	168	368	Management and development of timber, recreation, range, and water resources on 117,000 acres of LU lands.
Forest Fire Protection	118		Intensified protection, including increased manpower and equipment--approximately 2½ times present level.
		162	Fuel reduction on 33,000 acres of roadsides and firebreaks. Construct heliports and spots.
Structural Improvements for Fire and General Purpose	68		Maintenance of all existing improvements, including radio replacement.
		503	Construction and betterment of housing units, service buildings, lookouts, special structures, and related improvements; new radio installations; replace substandard telephone lines.
Insect and Disease Control	57		Intensified and accelerated detection, prevention and control of forest insects and disease to reduce current timber losses.
TOTAL - PROTECTION AND MANAGEMENT	884	6,340	
FOREST RESEARCH			
Forest and Range Management Research			
Forest Genetics and Planting	50		The amounts shown are for recurrent research programs of broad regional or national character that relate to national forest problems and which are headquartered in this state even though some of the work may be carried out in other states.
Silviculture	75		
Forest Protection Research			
Forest Fire	460		
Forest Disease	10		
Forest Products Utilization Research			
Forest Products	60		
Forest Engineering	200		
Construction - Research Facilities		1,180	Includes a major equipment development laboratory and office - laboratories at two other locations.
TOTAL - RESEARCH PROGRAM	855	1,180	
FOREST ROADS AND TRAILS			
Construction		2,900 1/	Construction and reconstruction of 150 miles roads and 10 miles trails, and assistance in construction of roads by timber purchasers.
Maintenance	168 2/		Maintenance of existing roads and trails.
GRAND TOTAL - STATE OF GEORGIA	1,907	10,420	

1/ Timber purchasers will construct an estimated additional 60 miles of road costing approximately $700,000 as the purchasers' share.

2/ Timber purchasers will maintain existing purchaser-constructed roads at an estimated annual cost of $3,000.

ITEM AND PROJECT	Recurrent Work Maximum Annual Level ($1,000)	Non-Recurrent Work Short-Term Program Total ($1,000)	WORK NEEDED
FOREST PROTECTION AND MANAGEMENT			
Timber Resource Management			
Sales Administration and Management	2,554		Develop plans for 913,000 acres. Keep plans current. Cut 1 billion bd. ft.
Reforestation and Stand Improvement		43,890	659,000 acres of cultural treatment. Plant 571,000 acres (including reinforcement and recent burn planting).
Recreation-Public Use	894		National Forest Outdoor Recreation Resources Review. Complete management and development plans. Maintenance, sanitation and cleanup of existing facilities.
		6,076	Construct 5,200 family units and related facilities.
Wildlife Habitat Management	200		Management and administration of wildlife resources.
		2,380	Improve 179,000 acres habitat, 500 miles stream, 1,800 acres lakes, and small watering facilities for wildlife. Rodent control 627,000 acres.
Range Resource Management			
Management	531		Management and administration of range resources.
		1,142	Complete analysis and plans for 1,175 allotments.
Revegetation		3,274	Revegetate 468,000 acres.
Improvements	92		Maintain existing improvements.
		2,007	Construct 1,500 miles of fence and 570 water developments.
Soil and Water Management	160		Management and administration of soil and water resources.
		6,500	Watershed rehabilitation on 134,000 acres, and 1,700 miles of gullies, roads and streams. 8 pollution control structures. Soil surveys on 2.8 million acres. Initiate inventories and water yield studies.
Mineral Claims, Leases and Other Land Uses (including land classification and ownership adjustments)	282		Examine mining claims. Administer mineral leases and special uses. Maintain property line posting. Administer land exchange.
		4,616	Prepare new status records system. Accelerate cadastral surveys. 6,000 miles property line surveys and posting; 29,000 sq. mi. topographic mapping.
Ranger District Management	1,044		General supervision and management of ranger districts.
Land Utilization Projects	13	31	Management and development of timber, recreation, range, wildlife and water resources on 50,000 acres of LU lands.
Forest Fire Protection	2,263		Intensified protection, including increased manpower and equipment -- approximately 2-1/2 times present level.
		9,253	Fuel reduction on 126,000 acres and 900 miles of firebreaks. Construct 450 heliports and spots.
Structural Improvements for fire and General Purpose	860		Maintenance of all existing improvements, including radio replacement.
		11,659	Construct 260 housing units and related improvements; 430 service buildings, lookouts and special structures; betterment of existing structures; new radio installations; replace substandard telephone lines; construct and reconstruct 25 landing fields.
Insect and Disease Control	2,100		Intensified and accelerated detection, prevention and control of forest insects and disease to reduce current timber losses.
TOTAL - PROTECTION AND MANAGEMENT	10,993	90,828	
FOREST RESEARCH			
Forest and Range Management Research			
Forest Genetics and Planting	50		The amounts shown are for recurrent research programs of broad regional or national character that relate to national forest problems and which are headquartered in this state even though some of the work may be carried out in other states.
Silviculture	100		
Watershed Management	50		
Range Management	100		
Recreation and Wildlife	60		
Forest Protection Research			
Forest Insect	40		
Forest Disease	70		
Construction, Research Facilities		281	Includes office-laboratories and related facilities at two locations.
TOTAL - RESEARCH PROGRAM	570	281	
FOREST ROADS AND TRAILS			
Construction		87,670 1/	Construction and reconstruction of 5,000 miles roads, 1,600 miles of trails, and assistance in construction of roads by timber purchasers.
Maintenance	2,397 2/		Maintenance of existing roads and trails.
GRAND TOTAL - STATE OF IDAHO	13,960	178,779	

1/ Timber purchasers will construct an estimated additional 5,800 miles of road costing approximately $61 million as the purchasers' share.

2/ Timber purchasers will maintain existing purchaser-constructed roads at an estimated annual cost of $613,000.

ITEM AND PROJECT	Recurrent Work Maximum Annual Level ($1,000)	Non-Recurrent: Work Short Term Program Total ($1,000)	WORK NEEDED
FOREST PROTECTION AND MANAGEMENT			
Timber Resource Management			
Sales Administration & Management	72		Develop plans for 18,000 acres. Keep plans current. Cut 12 million bd. ft.
Reforestation and Stand Improvement		1,130	62,000 acres of cultural treatment. Plant 15,000 acres (including reinforcement and recent burn planting).
Recreation-Public Use	96		N.F. Outdoor Recreation Resources Review. Complete management and development plans. Maintenance, sanitation and cleanup of existing facilities.
		850	Construct 725 family units and related facilities.
Wildlife Habitat Management	11		Management and administration of wildlife resources.
		121	Improve 7,900 acres habitat, 25 miles of stream, 25 acres lakes and small watering facilities for wildlife.
Soil and Water Management	3		Management and administration of soil and water resources.
		138	Rehabilitate eroded lands and stabilize gullies, roads and streams. Soil surveys on 200,000 acres. Initiate inventories of water yield studies.
Mineral Leases and Other Land Uses (including Land Classification and Ownership Adjs.)	39		Administer mineral leases and special uses. Maintain property line posting. Administer land exchange.
		405	Prepare new status records system. Accelerate cadastral surveys. 1,700 miles property line surveys and posting. 930 sq. mi. topographic mapping.
Ranger District Management	51		General supervision and management of ranger districts.
Forest Fire Protection	71		Intensified protection, including increased manpower and equipment -- approximately 2-1/2 times present level.
		244	Fuel reduction on 2,600 acres and 40 miles of firebreaks.
Structural Improvements for Fire and General Purpose	72		Maintenance of all existing improvements, including radio replacement.
		148	Construction and betterment of housing units, service buildings, lookouts, special structures and related improvements; new radio installations.
Insect and Disease Control	23		Intensified and accelerated detection, prevention and control of forest insects and disease to reduce current timber losses.
TOTAL - PROTECTION AND MANAGEMENT	438	3,036	
FOREST RESEARCH			
Forest and Range Management Research			
Forest Genetics and Planting	25		
Silviculture	50		The amounts shown are for recurrent research programs of broad regional or national character that relate to national forest problems and which are headquartered in this state even though some of the work may be carried out in other states.
Forest Products Utilization Research			
Forest Products	60		
Forest Engineering	100		
Construction, Research Facilities		120	For an office-laboratory and related facilities.
TOTAL - RESEARCH PROGRAM	235	120	
FOREST ROADS AND TRAILS			
Construction		1,200	Construction and reconstruction of 260 miles roads.
Maintenance	79		Maintenance of existing roads and trails.
GRAND TOTAL - STATE OF ILLINOIS	752	4,356	

ITEM AND PROJECT	Recurrent Work Maximum Annual Level ($1,000)	Non-Recurrent Work Short Term Program Total ($1,000)	WORK NEEDED
FOREST PROTECTION AND MANAGEMENT			
Timber Resource Management			
Sales Administration & Management	45		Develop plans for 11,000 acres. Keep plans current. Cut 8 million board feet.
Reforestation and Stand Improvement		788	39,000 acres of cultural treatment. Plant 13,000 acres (including reinforcement and recent burn planting).
Recreation-Public Use	42		N.F. Outdoor Recreation Resources Review. Complete management and development plans. Maintenance, sanitation and cleanup of existing facilities.
		415	Construct 350 family units and related facilities..
Wildlife Habitat Management	11		Management and administration of wildlife resources.
		80	Improve 4,700 acres habitat, 25 miles stream, 15 acres lakes, and small watering facilities for wildlife.
Soil and Water Management	8		Management and administration of soil and water resource.
		492	Watershed rehabilitation on 1,410 acres, and 191 miles of gullies, roads and streams. Initiate. inventories and water yield studies.
Mineral Leases and Other Land Uses (including land classification and ownership adjs.)	13		Administer mineral leases and special uses. Maintain property line posting. Administer land exchange.
		462	Prepare new status records system. Accelerate cadastral surveys. 1600 miles property line surveys and posting.
Ranger District Management	30		General supervision and management of ranger districts.
Forest Fire Protection	25		Intensified protection, including increased manpower and equipment--approximately $2\frac{1}{2}$ times present level.
		73	Fuel reduction on hazardous areas.
Structural Improvements for Fire and General Purpose	14		Maintenance of all existing improvements, including radio replacement.
		77	Construction and betterment of housing units, service buildings, lookouts, special structures, and related improvements. New radio installations.
Insect and Disease Control	14		Intensified and accelerated detection, prevention and control of forest insects and disease to reduce current timber losses.
TOTAL - PROTECTION AND MANAGEMENT	202	2,387	
FOREST RESEARCH			
Forest and Range Management Research			
Silviculture	25		The amounts shown are for recurrent research programs of broad regional or national character that relate to national forest problems and which are headquartered in this state even though some of the work may be carried out in other states.
TOTAL - RESEARCH PROGRAM	25		
FOREST ROADS AND TRAILS			
Construction		870	Construction and reconstruction of 175 miles roads.
Maintenance	16		Maintenance of existing roads and trails.
GRAND TOTAL - STATE OF INDIANA	243	3,257	

ITEM AND PROJECT	Recurrent Work Maximum Annual Level ($1,000)	Non-Recurrent Work Short-Term Program Total ($1,000)	WORK NEEDED
FOREST PROTECTION AND MANAGEMENT			
Timber Resource Management			
Sales Administration & Management	181		Develop plans for 39,000 acres. Keep plans current. Cut 32 million bd. ft.
Reforestation and Stand Improvement		1,938	80,000 acres of cultural treatment. Plant 14,000 acres (including reinforcement and recent burn planting.
Recreation-Public Use	94		N. F. Outdoor Recreation Resources Review. Complete management and development plans. Maintenance, sanitation and cleanup of existing facilities.
		1,002	Construct 850 family units and related facilities.
Wildlife Habitat Management	30		Management and administration of wildlife resources.
		947	Improve 19,000 acres habitat, 100 miles stream, 100 acres lakes, and small water facilities for wildlife.
Range Resource Management Management	1		Management and administration of range resources.
		3	Complete analysis and plans for range allotments.
Revegetation		5	Revegetate depleted range land.
Improvements		1	Construct water developments.
Soil and Water Management	13		Management and administration of soil and water resources.
		818	Rehabilitate eroded lands and stabilize gullies, roads and streams. 66 pollution control structures and 4 flood prevention projects. Soil surveys on 198,000 acres. Initiate inventories and water yield studies.
Mineral Leases and Other Land Uses (including Land Classification and Ownership Adjs.)	102		Administer mineral leases and special uses. Maintain property line posting. Administer land exchange.
		448	Prepare new status records system. Accelerate cadastral surveys. 1,300 miles property line surveys and posting. Consolidate ownership through purchase of small tracts.
Ranger District Management	86		General supervision and management of ranger districts.
Forest Fire Protection	109		Intensified protection, including increased manpower and equipment -- approximately 2-1/2 times present level.
		508	Fuel reduction on 18,000 acres and 200 miles of firebreaks. Construct heliports and spots.
Structural Improvements for Fire and General Purpose	42		Maintenance of all existing improvements, including radio replacement.
		789	Construction and betterment of housing units, service buildings, lookouts, special structures and related improvements, new radio installations; replace substandard telephone lines.
Insect and Disease Control	15		Intensified and accelerated detection, prevention and control of forest insects and disease to reduce current timber losses.
TOTAL - PROTECTION AND MANAGEMENT	673	6,459	
FOREST RESEARCH			
Forest and Range Management Research			The amounts shown are for recurrent research programs of broad regional or national character
Silviculture	50		that relate to national forest problems and which are headquartered in this state even though
Watershed Management	30		some of the work may be carried out in other states.
Recreation and Wildlife	20		
TOTAL - RESEARCH PROGRAM	100		
FOREST ROADS AND TRAILS			
Construction		6,130 1/	Construction and reconstruction of 470 miles of roads and 95 miles of trails and assistance in construction of roads by timber purchasers.
Maintenance	172 2/		Maintenance of existing roads and trails.
GRAND TOTAL - STATE OF KENTUCKY	945	12,589	

1/ Timber purchasers will construct an estimated additional 300 miles of road costing approximately $520,000 as the purchasers' share.

2/ Timber purchasers will maintain existing purchaser-constructed roads at an estimated annual cost of $2,000.

ITEM AND PROJECT	Recurrent Work Maximum Annual Level ($1,000)	Non-Recurrent Work Short-Term Program Total ($1,000)	WORK NEEDED
FOREST PROTECTION AND MANAGEMENT			
Timber Resource Management			
Sales Administration and Management	259		Develop plans for 113,000 acres. Keep plans current. Cut 69 million bd. ft.
Reforestation and Stand Improvement		2,048	109,000 acres of cultural treatment. Plant 22,000 acres (including reinforcement and recent burn planting).
Recreation-Public Use	59		National Forest Outdoor Recreation Resources Review. Complete management and development plans. Maintenance, sanitation and cleanup of existing facilities.
		495	Construct 400 family units.
Wildlife Habitat Management	17		Management and administration of wildlife resources.
		169	Improve 49,000 acres habitat, 200 acres lakes, and small watering facilities for wildlife.
Range Resource Management			
Management	10		Management and administration of range resource.
		95	Complete analysis and plans for 110 allotments.
Revegetation		54	Revegetate 8,000 acres.
Improvements	3		Maintain existing improvements.
		115	Construct range fences and water developments.
Soil and Water Management	3		Management and administration of soil and water resource.
		97	Rehabilitate eroded lands and stabilize gullies, roads and streams. Soil surveys on 100,000 acres. Initiate inventories and water yield studies.
Mineral Leases and Other Land Uses (Including land classification and ownership adjustments)	61		Administer mineral leases and special uses. Maintain property line posting, administer land exchange.
		410	Prepare new status records system. Accelerate cadastral surveys. 2,000 miles property line surveys and posting. Consolidate ownership through purchase of small tracts.
Ranger District Management	77		General supervision and management of ranger districts.
Land Utilization Projects	71	983	Management and development of timber recreation, range, wildlife and water resources on 31,000 acres of LU lands.
Forest Fire Protection	111		Intensified protection, including increased manpower and equipment--approximately 2-1/2 times present level.
		90	Fuel reduction on 31,000 acres.
Structural Improvements for Fire and General Purpose	54		Maintenance of all existing improvements, including radio replacement.
		421	Construction and betterment of housing units, service buildings, lookouts, special structures, and related improvements, new radio installations; replace substandard telephone lines.
Insect and Disease Control	69		Intensified and accelerated detection, prevention and control of forest insects and disease to reduce current timber losses.
TOTAL - PROTECTION AND MANAGEMENT	794	4,977	
FOREST RESEARCH			
Forest and Range Management Research			
Forest Genetics and Planting	50		The amounts shown are for recurrent research programs of broad regional or national character that relate to national forest problems and which are headquartered in this state even though some of the work may be carried out in other states.
Timber Growth and Yields	50		
Range Management	60		
Forest Protection Research			
Forest Fire	130		
Forest Products Utilization Research			
Forest Products	110		
Forest Resources Research			
Forest Survey	20		
Forest Economics	50		
Marketing	60		
Construction, Research Facilities		240	For an office-laboratory and related facilities.
TOTAL - RESEARCH PROGRAM	530	240	
FOREST ROADS AND TRAILS			
Construction		2,300 1/	Construction and reconstruction of 130 miles roads and assistance in construction of roads by timber purchasers.
Maintenance	188 2/		Maintenance of existing roads and trails.
GRAND TOTAL - State of Louisiana	1,512	7,517	

1/ Timber purchasers will construct an estimated additional 20 miles of road costing $200,000 as the purchasers' share.

2/ Timber purchasers will maintain existing purchaser-constructed roads at an estimated annual cost of $1,000.

ITEM AND PROJECT	Recurrent Work Maximum Annual Level ($1,000)	Non-Recurrent Work Short-Term Program Total ($1,000)	WORK NEEDED
FOREST PROTECTION AND MANAGEMENT			
Timber Resource Management			
Sales Administration and Management	27		Develop plans for 9,000 acres. Keep plans current. Cut 5 million bd. ft.
Reforestation and Stand Improvement		172	9,000 acres of cultural treatment. Plant 800 acres (including reinforcement and recent burn planting).
Recreation-Public Use	30		National Forest Outdoor Recreation Resources Review. Complete management and development plans. Maintenance, sanitation and cleanup of existing facilities.
		125	Construct 100 family units and related facilities.
Wildlife Habitat Management	2		Management and administration of wildlife resources.
		66	Improve wildlife habitat, streams and lakes. Develop small watering facilities for wildlife.
Soil and Water Management	2		Management and administration of soil and water resources.
		19	Rehabilitate eroded lands and stabilize gullies, roads and streams. Soil surveys on 36,900 acres. Initiate inventories and water yield studies.
Mineral Leases and Other Land Uses (including land classification and ownership adjustments)	4		Administer special uses. Maintain property line posting.
		82	Prepare new status records system. Accelerate cadastral surveys. 230 miles property line surveys and posting. Consolidate ownership through purchase of small tracts.
Ranger District Management	14		General supervision and management of ranger districts.
Forest Fire Protection	12		Intensified protection, including increased manpower and equipment--approximately 2-1/2 times present level.
		37	Fuel reduction on hazard areas and construction of firebreaks.
Structural Improvements for fire and General Purpose	6		Maintenance of all existing improvements, including radio replacement.
		72	Construction of service buildings, lookouts and special structures; new radio installations; replace substandard telephone lines.
Insect and Disease Control	1		Intensified and accelerated detection, prevention and control of forest insects and disease to reduce current timber losses.
TOTAL - PROTECTION AND MANAGEMENT	98	573	The amounts shown are for recurrent research programs of broad regional or national character that relate to national forest problems and which are headquartered in this state even though some of the work may be carried out in other states.
FOREST RESEARCH			
Forest and Range Management Research			
Silviculture	65		
Construction, Research Facilities		180	For office-laboratory and related facilities at one location.
TOTAL - RESEARCH PROGRAM	65	180	
FOREST ROADS AND TRAILS			
Construction		360 1/	Construction and reconstruction of access roads and trails and assistance in construction of roads by timber purchasers.
Maintenance	15 2/		Maintenance of existing roads and trails.
GRAND TOTAL - State of Maine	178	1,113	

1/ Timber purchasers will construct additional access roads costing approximately $45,000 as the purchasers' share.

2/ Timber purchasers will maintain existing purchaser-constructed roads at an estimated annual cost of $1,000.

ITEM AND PROJECT	Recurrent Work Maximum Annual Level ($1,000)	Non-Recurrent Work Short Term Program Total ($1,000)	WORK NEEDED
FOREST RESEARCH			
Forest and Range Management Research			
Forest Genetics and Planting	150		
Timber Growth and Yields	150		
Range Management	45		
Recreation and Wildlife	150		The amounts shown are for recurrent research programs of national character that relate to national forest problems and which are headquartered in this state even though some of the work may be carried out in other states. These programs are primarily basic research headquartered at Beltsville, Maryland.
Forest Protection Research			
Forest Insects	220		
Forest Disease	40		
Forest Products Utilization Research			
Forest Engineering	100		
Forest Resources Research			
Forest Survey	20		
Forest Economics	20		
Marketing	120		
Construction, Research Facilities		3,000	For a major office-laboratory at Beltsville.
TOTAL - RESEARCH PROGRAM	1,015	3,000	
GRAND TOTAL - STATE OF MARYLAND	1,015	3,000	

ITEM AND PROJECT	Recurrent Work Maximum Annual Level ($1,000)	Non-Recurrent Work Short Term Program Total ($1,000)	WORK NEEDED
FOREST PROTECTION AND MANAGEMENT			
Timber Resource Management			
Sales Administration & Management	530		Develop plans for 225,000 acres. Keep plans current. Cut 165 million board feet.
Reforestation and Stand Improvement		18,644	649,000 acres of cultural treatment. Plant 231,000 acres (including reinforcement and recent burn).
Recreation-Public Use	227		National Forest Outdoor Recreation Resources Review. Complete management and development plans. Maintenance, sanitation and cleanup of existing facilities.
		1,628	Construct 1,400 family units and related facilities.
Wildlife Habitat Management	75		Management and administration of wildlife resources.
		417	Improve 33,000 acres habitat, 120 miles stream, 460 acres lakes and small watering facilities for wildlife. Rodent control 80,000 acres.
Soil and Water Management	4		Management and administration of soil and water resources.
		162	Rehabilitate eroded lands and stabilize gullies, roads and streams. Soil surveys on 700,000 acres. Initiate inventories and water yield studies.
Mineral Leases and Other Land Uses (including land classification and ownership adjs.)	116		Administer mineral leases, special uses and land exchange.
		1,317	Prepare new status records system. Accelerate cadastral surveys. 6,000 miles property line surveys and posting.
Ranger District Management	241		General supervision and management of ranger districts.
Forest Fire Protection	268		Intensified protection, including increased manpower and equipment--approximately 2½ times present level.
		2,323	Fuel reduction on 12,000 acres and 1,000 miles of firebreaks. Construct heliports and spots.
Structural Improvements for Fire and General Purpose	135		Maintenance of all existing improvements, including radio replacement.
		853	Construct 30 housing units and related improvements; 30 service buildings, lookouts and special structures; betterment of existing structures; new radio installations; replace substandard telephone lines.
Insect and Disease Control	152		Intensified and accelerated detection, prevention and control of forest insects and disease to reduce current timber losses.
TOTAL - PROTECTION AND MANAGEMENT	1,748	25,344	
FOREST RESEARCH			
Forest and Range Management Research			
Forest Genetics and Planting	25		The amounts shown are for recurrent research programs of broad regional or national character that relate to national forest problems and which are headquartered in this state even though some of the work may be carried out in other states.
Silviculture	75		
Watershed Management	65		
Forest Protection Research			
Forest Insect	25		
Forest Disease	40		
Forest Products Utilization Research			
Forest Engineering	200		
Construction, Research Facilities		154	Includes office-laboratories and related facilities at two locations.
TOTAL - RESEARCH PROGRAM	430	154	
FOREST ROADS AND TRAILS			
Construction		13,450 1/	Construction and reconstruction of 2,900 miles roads and assistance in construction of roads by timber purchasers.
Maintenance	378 2/		Maintenance of existing roads and trails.
GRAND TOTAL - STATE OF MICHIGAN	2,556	38,948	

1/ Timber purchasers will construct an estimated additional 150 miles of road costing approximately $430,000 as the purchasers' share.

2/ Timber purchasers will maintain existing purchaser-constructed roads at an estimated annual cost of $2,000.

ITEM AND PROJECT	Recurrent Work Maximum Annual Level ($1,000)	Non-Recurrent Work Short Term Program Total ($1,000)	WORK NEEDED
FOREST PROTECTION AND MANAGEMENT			
Timber Resource Management			
Sales Administration and Mgt.	454		Develop plans for 228,000 acres. Keep plans current. Cut 180 million bd. ft.
Reforestation and Stand Improvement		15,827	440,000 acres of cultural treatment. Plant 165,000 acres (including reinforcement and recent burn planting.)
Recreation-Public Use	282		N. F. Outdoor Recreation Resources Review. Complete management and development plans. Maintenance, sanitation and cleanup of existing facilities.
		2,341	Construct 2,000 family units and related facilities.
Wildlife Habitat Management	56		Management and administration of wildlife resources.
		260	Improve 19,000 acres habitat, 60 miles stream, 1,600 acres lakes, and small watering facilities for wildlife. Rodent control on 28,000 acres.
Soil and Water Management	3		Management and administration of soil and water resources.
		29	Rehabilitate eroded lands and stabilize gullies, roads and streams. Initiate inventories and water yield studies.
Mineral Leases and Other Land Uses (including land classification and ownership adjs.)	107		Administer mineral leases and special uses. Maintain property line postings. Administer land exchange.
		1,722	Prepare new status records system. Accelerate cadastral surveys. 6,000 miles property line surveys and posting 5,400 sq. mi. topographic mapping.
Acquisition of Lands		1,470	Boundary canoe waters - Superior National Forest -- 9,000 acres.
Ranger District Management	236		General supervision and management of ranger districts.
Forest Fire Protection	325		Intensified protection, including increased manpower and equipment - approximately 2-1/2 times present level.
		2,087	Fuel reduction on 14,000 acres and 700 miles of firebreaks. Construct heliports and spots.
Structural Improvements for Fire and General Purpose	146		Maintenance of all existing improvements, including radio replacement.
		942	Construct 20 housing units and related improvements; 25 service buildings, lookouts and special structures; betterment of existing structures; new radio installations; replace substandard telephone lines.
Insect and Disease Control	176		Intensified and accelerated detection, prevention and control of forest insects and disease to reduce current timber losses.
TOTAL - PROTECTION AND MANAGEMENT	1,785	24,678	
FOREST RESEARCH			
Forest and Range Mgt. Research			
Forest Genetics and Planting	25		
Silviculture	50		
Timber Growth and Yields	50		
Watershed Management	80		
Recreation and Wildlife	115		
Forest Protection Research			The amounts shown are for recurrent research programs of broad regional or national character that
Forest Fire	90		relate to national forest problems and which are headquartered in this state even though some of
Forest Insect	50		the work may be carried out in other states.
Forest Disease	45		
Forest Products Utilization Research			
Forest Products	110		
Forest Resources Research			
Forest Surveys	30		
Forest Economics	60		
Marketing	70		
Construction, Research Facilities		825	For a regional station headquarters office-laboratory.
TOTAL - RESEARCH PROGRAM	775	825	
FOREST ROADS AND TRAILS			
Construction		25,600 1/	Construction and reconstruction of 3,000 miles of roads, 35 miles of trails, and assistance in construction of roads by timber purchasers.
Maintenance	691 2/		Maintenance of existing roads and trails.
GRAND TOTAL - STATE OF MINNESOTA	3,251	51,103	

1/ Timber purchasers will construct an estimated additional 540 miles of road costing approximately $2.5 million as the purchasers' share.

2/ Timber purchasers will maintain existing purchaser-constructed roads at an estimated annual cost of $12,000.

ITEM AND PROJECT	Recurrent Work Maximum Annual Level ($1,000)	Non-Recurrent Work Short Term Program Total ($1,000)	WORK NEEDED
FOREST PROTECTION AND MANAGEMENT			
Timber Resource Management			
Sales Administration & Management	512		Develop plans for 224,000 acres. Keep plans current. Cut 140 million bd. ft.
Reforestation and Stand Improvement		2,879	128,000 acres of cultural treatment. Plant 33,000 acres (including reinforcement and recent burn planting).
Recreation-Public Use	143		N.F. Outdoor Recreation Resources Review. Complete management and development plans. Maintenance, sanitation and cleanup of existing facilities.
		1,203	Construct 1000 family units and related facilities.
Wildlife Habitat Management	25		Management and administration of wildlife resources.
		269	Improve 86,000 acres habitat, 10 miles stream, 150 acres lakes, and small watering facilities for wildlife.
Range Resource Management Management	10		Management and administration of range resources.
		95	Complete analysis and plans for 110 allotments.
Revegetation		54	Revegetate 8,000 acres.
Improvements	3		Maintain existing improvements.
		115	Construct range fences and water developments.
Soil and Water Management	8		Management and administration of soil and water resources.
		484	Watershed rehabilitation on 1,000 acres, and 350 miles of gullies, roads and streams. Soil surveys on 400,000 acres. Initiate inventories and water yield studies.
Mineral Leases and Other Land Uses (including Land Classification and Ownership Adjs.)	72		Administer mineral leases and special uses. Administer land exchange. Maintain property line posting.
		987	Prepare new status records system. Accelerate cadastral surveys. Consolidate ownership through purchase of small tracts.
Ranger District Management	150		General supervision and management of ranger districts.
Land Utilization Projects	173	339	Management and development of timber, recreation, range, wildlife and water resources on 85,000 acres of L.U. lands.
Forest Fire Protection	255		Intensified protection, including increased manpower and equipment -- approximately 2-1/2 times present level.
		264	Fuel reduction on 606,000 acres.
Structural Improvements for Fire and General Purpose	131		Maintenance of all existing improvements, including radio replacement.
		630	Construction and betterment of housing units, service buildings, lookouts, special structures and related improvements, new radio installations; replace substandard telephone lines.
Insect and Disease Control	71		Intensified and accelerated detection, prevention and control of forest insects and disease to reduce current timber losses.
TOTAL - PROTECTION AND MANAGEMENT	1,562	7,319	
FOREST RESEARCH			
Forest and Range Management Research			
Forest Genetics and Planting	225		
Silviculture	40		The amounts shown are for recurrent research programs of broad regional or national character that relate to national forest problems and which are headquartered in this state even though some of the work may be carried out in other states.
Watershed Management	110		
Forest Protection Research			
Forest Insect	190		
Forest Disease	55		
Construction, Research Facilities		970	Includes office-laboratories at 2 locations, one laboratory addition, and related facilities
TOTAL - RESEARCH PROGRAM	620	970	
FOREST ROADS AND TRAILS			
Construction		3,100 1/	Construction and reconstruction of 300 miles of roads, and assistance in construction of roads by timber purchasers.
Maintenance	227 2/		Maintenance of existing roads and trails.
GRAND TOTAL - STATE OF MISSISSIPPI	3,409	11,389	

1/ Timber purchasers will construct an estimated additional 45 miles of road costing approximately $300,000 as the purchasers' share.

2/ Timber purchasers will maintain existing purchaser-constructed roads at an estimated annual cost of $2,000.

ITEM AND PROJECT	Recurrent Work Maximum Annual Level ($1,000)	Non-Recurrent Work Short Term Program Total ($1,000)	WORK NEEDED
FOREST PROTECTION AND MANAGEMENT			
Timber Resource Management			
Sales Administration and Management	371		Develop plans for 133,000 acres. Keep plans current. Cut 65 million bd. ft.
Reforestation and Stand Improvement		5,791	345,000 acres of cultural treatment. Plant 75,000 acres (including reinforcement and recent burn planting).
Recreation-Public Use	78		National Forest Outdoor Recreation Resources Review. Complete management and development plans. Maintenance, sanitation and cleanup of existing facilities.
		681	Construct 575 family units and related facilities.
Wildlife Habitat Management	40		Management and administration of wildlife resources.
		343	Improve 28,000 acres habitat, 100 miles stream, 25 acres lakes, and small watering facilities for wildlife.
Range Resource Management Management	48		Management and administration of range resource.
		147	Complete analysis and plans for 150 allotments.
Revegetation		103	Revegetate 15,000 acres.
Improvements	10		Maintain existing improvements.
		162	Construct 50 miles fence and 130 water developments.
Soil and Water Management	3		Management and administration of soil and water resource.
		151	Rehabilitate eroded lands and stabilize gullies, roads and streams. Soil surveys on 700,000 acres. Initiate inventories and water yield studies.
Mineral Leases and Other Land Uses (including land classification and ownership adjustments)	65		Administer mineral leases and special uses. Maintain property line posting; administer land exchange.
		1,157	Prepare new status records system. Accelerate cadastral surveys. 4,000 miles property line surveys and posting. 5,000 sq. mi. topographic mapping.
Ranger District Management	181		General supervision and management of ranger districts.
Forest Fire Protection	291		Intensified protection, including increased manpower and equipment--approximately 2-1/2 times present levels.
		969	Fuel reduction 9,000 acres and 165 miles of firebreaks. Construct heliports and spots.
Structural Improvements for Fire and General Purpose	131		Maintenance of all existing improvements, including radio replacement.
		883	Construction and betterment of housing units, service buildings, lookouts, special structures, and related improvements; new radio installations; replace substandard telephone lines.
Insect and Disease Control	42		Intensified and accelerated detection, prevention and control of forest insects and disease to reduce current timber losses.
TOTAL - PROTECTION AND MANAGEMENT	1,260	10,387	
FOREST RESEARCH			
Forest and Range Management Research			
Silviculture	50		The amounts shown are for recurrent research programs of broad regional or national character that relate to national forest problems and which are headquartered in this state even though some of the work may be carried out in other states.
Range Management	60		
Forest Protection Research			
Forest Disease	20		
Construction, Research Facilities		313	For an office-laboratory and related facilities.
TOTAL - RESEARCH PROGRAM	130	313	
FOREST ROADS AND TRAILS			
Construction		3,450	Construction and reconstruction of 860 miles of roads.
Maintenance	204		Maintenance of existing roads and trails.
GRAND TOTAL - State of Missouri	1,594	14,150	

ITEM AND PROJECT	Recurrent Work Maximum Annual Level ($1,000)	Non-Recurrent Work Short Term Program Total ($1,000)	WORK NEEDED
FOREST PROTECTION AND MANAGEMENT			
Timber Resource Management			
Sales Administration and Management	2,282		Develop plans for 996,000 acres. Keep plans current. Cut 875 million bd. ft.
Reforestation and Stand Improvement		26,642	1.2 million acres of cultural treatment. Plant 141,000 acres (including reinforcement and recent burn planting).
Recreation-Public Use	645		N.F. Outdoor Recreation Resources Review. Complete management and development plans. Maintenance, sanitation and cleanup of existing facilities.
		4,871	Construct 4100 family units and related facilities.
Wildlife Habitat Management	183		Management and administration of wildlife resources.
		1,497	Improve 21,000 acres habitat, 40 miles stream, 1,100 acres lakes, and 21,000 small watering facilities for wildlife. Rodent control 1.3 million acres.
Range Resource Management			
Management	380		Management and administration of range resources.
		937	Complete analysis and plans for 995 allotments.
Revegetation		1,205	Revegetate 173,000 acres.
Improvements	109		Maintenance of existing improvements.
		1,327	Construct 800 miles of fence; 600 water developments.
Soil and Water Management	105		Management and administration of soil and water resources.
		3,141	Watershed rehabilitation on 18,080 acres, and 1,300 miles of gullies, roads and streams. 12 pollution control structures. Soil surveys on 1.7 million acres. Initiate inventories and water yield studies.
Mineral Claims, Leases and Other Land Uses (including land classification and ownership adjs.)	265		Examine mining claims. Administer mineral leases and special uses. Maintain property line postings. Administer land exchange.
		4,350	Prepare new status records system. Accelerate cadastral surveys. 10,800 miles property line surveys and posting. 20,800 sq. mi. topographic mapping.
Ranger District Management	968		General supervision and management of ranger districts.
Forest Fire Protection	1,339		Intensified protection, including increased manpower and equipment - approximately 2½ times present level.
		5,493	Fuel reduction on 83,000 acres and 200 miles of firebreaks. Construct 300 heloports and spots.
Structural Improvements for fire and General Purpose	654		Maintenance of all existing improvements, including radio replacement.
		10,700	Construct 250 housing units and related improvements; 470 service buildings, lookouts and special structures; betterment of existing structures; new radio installations; replace 270 miles of telephone lines; construct and reconstruct 12 landing fields.
Insect and Disease Control	986		Intensified and accelerated detection, prevention and control of forest insects and disease to reduce current timber losses.
TOTAL - PROTECTION AND MANAGEMENT	7,916	60,163	
FOREST RESEARCH			
Forest and Range Mgmt. Research			
Forest Genetics and Planting	50		
Silviculture	225		
Timber Growth and Yields	50		
Watershed Management	140		The amounts shown are for recurrent research programs of broad regional or national character that relate to national forest problems and which are headquartered in this state even though some of the work may be carried out in other states.
Range Management	170		
Recreation and Wildlife	210		
Forest Protection Research			
Forest Fire	570		
Forest Insect	160		
Forest Products Utilization Research			
Forest Products	120		
Forest Engineering	200		
Construction, Research Facilities		238	Includes office-laboratories and related facilities at two locations.
TOTAL - RESEARCH PROGRAM	1,895	238	
FOREST ROADS AND TRAILS			
Construction		58,800 1/	Construction and reconstruction of 3000 miles roads, 1100 miles trails, and assistance in construction of roads by timber purchasers.
Maintenance	1,660 2/		Maintenance of existing roads and trails.
GRAND TOTAL - STATE OF MONTANA	11,471	119,201	

1/ Timber purchasers will construct an estimated additional 4800 miles of road costing approximately $48 million as the purchasers' share.

2/ Timber purchasers will maintain existing purchaser-constructed roads at an estimated annual cost of $342,000.

ITEM AND PROJECT	Recurrent Work Maximum Annual Level ($1,000)	Non-Recurrent Work Short Term Program Total ($1,000)	WORK NEEDED
FOREST PROTECTION AND MANAGEMENT			
Timber Resource Management			
Sales Administration & Management	1		Develop plans for 3000 acres. Keep plans current.
Reforestation and Stand Improvement		1,657	27,000 acres of cultural treatment. Plant 12,000 acres (including reinforcement and recent burn planting).
Recreation-Public Use	21		N.F. Outdoor Recreation Resources Review. Complete management and development plans. Maintenance, sanitation and cleanup of existing facilities.
		163	Construct 135 family units and related facilities.
Wildlife Habitat Management	5		Management and administration of wildlife resources.
		33	Improve wildlife habitat. Rodent control 11,000 acres.
Range Resource Management			
Management	18		Management and administration of range resources.
		33	Complete analysis and plans for 50 allotments.
Revegetation		53	Revegetate 7500 acres.
Improvements	17		Maintenance of existing improvements.
		152	Construct 100 miles of fence and 45 water developments.
Soil and Water Management	2		Management and administration of soil and water resources.
		13	Rehabilitate eroded lands and stabilize gullies, roads and streams. Initiate inventories and water yield studies.
Mineral Leases and Other Land Uses (including land classification and ownership adjs.)	12		Administer mineral leases and special uses. Maintain property line posting. Administer land exchange.
		3	Prepare new status records system. Accelerate cadastral surveys. Property line surveys and posting.
Ranger District Management	26		General supervision and management of ranger districts.
Land Utilization Projects	68	490	Management and development of timber recreation, range, wildlife and water resources on 134,000 acres of LU lands.
Forest Fire Protection	24		Intensified protection, including increased manpower and equipment - approximately 2½ times present level.
		36	Fuel reduction on hazard areas and construct heliports and spots.
Structural Improvements for Fire and General Purpose	27		Maintenance of all existing improvements, including radio replacement.
		72	Construction and betterment of housing units, service buildings, lookouts, special structures and related improvements; new radio installations.
Insect and Disease Control	49		Intensified and accelerated detection, prevention and control of forest insects and disease to reduce current timber losses.
TOTAL - PROTECTION AND MANAGEMENT	270	2,705	
FOREST ROADS AND TRAILS			
Construction		94	Construction and reconstruction of access roads.
Maintenance	13		Maintenance of existing roads and trails.
GRAND TOTAL - STATE OF NEBRASKA	283	2,799	

ITEM AND PROJECT	Recurrent Work Maximum Annual Level ($1,000)	Non-Recurrent Work Short-Term Program Total ($1,000)	WORK NEEDED
FOREST PROTECTION AND MANAGEMENT			
Timber Resource Management			
Sales Administration & Management	4		Develop plans for 10,000 acres. Keep plans current. Cut 1 million board feet.
Reforestation and Stand Improvement		296	10,000 acres of cultural treatment. Plant 1,700 acres (including reinforcement and recent burn planting).
Recreation-Public Use	211		National Forest Outdoor Recreation Resources Review. Complete management and development plans. Maintenance, sanitation and cleanup of existing facilities.
		742	Construct 630 family units and related facilities.
Wildlife Habitat Management	41		Management and administration of wildlife resources.
		210	Improve 46,000 acres habitat, 80 miles stream, 345 acres lakes, and small watering facilities for wildlife. Rodent control 52,000 acres.
Range Resource Management			
Management	176		Management and administration of range resource.
		359	Complete analysis and plans for 367 allotments.
Revegetation		1,401	Revegetate 200,000 acres.
Improvements	57		Maintain existing improvements.
		1,279	Construct 1,000 miles fence, 360 water developments.
Soil and Water Management	33		Management and administration of soil and water resource.
		673	Watershed rehabilitation on 8,000 acres and 100 miles of gullies, roads and streams. Initiate inventories and water yield studies. Conduct soil surveys.
Mineral Leases and Other Land Uses (including land classification and ownership adjs.)	55		Examine mining claims. Administer mineral leases and special uses. Maintain property line posting. Administer land exchange.
		1,652	Prepare new status records system. Accelerate cadastral surveys. 1,300 miles property line surveys and posting. 12,000 square miles topographic mapping.
Ranger District Management	169		General supervision and management of ranger districts.
Forest Fire Protection	68		Intensified protection, including increased manpower and equipment--approximately 2½ times present level.
		142	Fuel reduction on 200 miles of roadsides and firebreaks.
Structural Improvements for Fire and General Purpose	75		Maintenance of all existing improvements, including radio replacement.
		821	Construct 25 housing units and related improvements; 30 service buildings, lookouts and special structures; betterment of existing structures; new radio installations; replace substandard telephone lines.
Insect and Disease Control	15		Intensified and accelerated detection, prevention and control of forest insects and disease to reduce current timber losses.
TOTAL - PROTECTION AND MANAGEMENT	904	7,575	
FOREST RESEARCH			
Forest and Range Management Research			
Watershed Management	50		The amounts shown are for recurrent research programs of broad regional or national character that relate to national forest problems and which are headquartered in this state even though some of the work may be carried out in other states.
Range Management	50		
TOTAL - RESEARCH PROGRAM	100		
FOREST ROADS AND TRAILS			
Construction		2,100	Construction and reconstruction of 200 miles roads and 125 miles trails.
Maintenance	141		Maintenance of existing roads and trails.
GRAND TOTAL - STATE OF NEVADA	1,145	9,675	

ITEM AND PROJECT	Recurrent Work Maximum Annual Level ($1,000)	Non-Recurrent Work Short Term Program Total ($1,000)	WORK NEEDED
FOREST PROTECTION AND MANAGEMENT			
Timber Resource Management			
Sales Administration and Management	183		Develop plans for 53,000 acres. Keep plans current. Cut 30 million bd. ft.
Reforestation and Stand Improvement		1,279	67,000 acres of cultural treatment. Plant 3,400 acres (including reinforcement and recent burn planting).
Recreation-Public Use	212		N.F. Outdoor Recreation Resources Review. Complete management and development plans. Maintenance, sanitation and cleanup of existing facilities.
		939	Construct 800 family units and related facilities.
Wildlife Habitat Management	14		Management and administration of wildlife resources.
		818	Improve 14,000 acres habitat, 130 miles stream, 180 acres lakes, and small watering facilities for wildlife.
Soil and Water Management	9		Management and administration of soil and water resources.
		167	Rehabilitate eroded lands and stabilize gullies, roads and streams. Soil surveys on 270,000 acres. Initiate inventories and water yield studies.
Mineral Leases and Other Land Uses (including land classification and ownership adjs.)	30		Administer mineral leases and special uses. Maintain property line posting. Administer land exchange.
		612	Prepare new status records system. Accelerate cadastral surveys. 1,800 miles property line surveys and posting. 2,300 sq. mi. topographic mapping. Consolidate ownership through purchase of small tracts.
Ranger District Management	56		General supervision and management of ranger districts.
Forest Fire Protection	47		Intensified protection, including increased manpower and equipment - approximately 2½ times present level.
		359	Fuel reduction on 8,000 acres and 100 miles of firebreaks. Construct heliports and spots.
Structural Improvements for Fire and General Purpose	22		Maintenance of all existing improvements, including radio replacement.
		467	Construction and betterment of housing units, service buildings, lookouts, special structures, and related improvements; new radio installations, replace substandard telephone lines.
Insect and Disease Control	7		Intensified and accelerated detection, prevention and control of forest insects and disease to reduce current timber losses.
TOTAL - PROTECTION AND MANAGEMENT	580	4,641	
FOREST RESEARCH			
Forest and Range Mgmt. Research			The amounts shown are for recurrent research programs of broad regional or national character
Silviculture	50		that relate to national forest problems and which are headquartered in this state even
Watershed Management	205		though some of the work may be carried out in other states.
Forest Protection Research			
Forest Disease	20		
Construction, Research Facilities		680	For a major snow and hydrology laboratory and related facilities.
TOTAL - RESEARCH PROGRAM	275	680	
FOREST ROADS AND TRAILS			
Construction		3,100 1/	Construction and reconstruction of 140 miles roads, and 40 miles trails, and assistance in construction of roads by timber purchasers.
Maintenance	139 2/		Maintenance of existing roads and trails.
GRAND TOTAL - STATE OF NEW HAMPSHIRE	994	8,421	

1/ Timber purchasers will construct an estimated additional 50 miles of road costing approximately $135,000 as the purchasers' share.

2/ Timber purchasers will maintain existing purchaser-constructed roads at an estimated annual cost of $1,000.

ITEM AND PROJECT	Recurrent Work Maximum Annual Level ($1,000)	Non-Recurrent Work Short Term Program Total ($1,000)	WORK NEEDED
FOREST PROTECTION AND MANAGEMENT			
Timber Resource Management			
Sales Administration and Management	535		Develop plans for 320,000 acres. Keep plans current. Cut 180 million bd. ft.
Reforestation and Stand Improvement		15,703	719,000 acres of cultural treatment. Plant 51,000 acres (including reinforcement and recent burn planting).
Recreation-Public Use	544		N.F. Outdoor Recreation Resources Review. Complete management and development plans. Maintenance, sanitation and cleanup of existing facilities.
		4,382	Construct 3,700 family units and related facilities.
Wildlife Habitat Management	131		Management and administration of wildlife resources.
		1,115	Improve 98,000 acres habitat, 190 miles stream, 1,000 acres lakes, and small watering facilities of wildlife. Rodent control 267,000 acres.
Range Resources Management			
Management	332		Management and administration of range resources.
		997	Complete analysis and plans for 705 allotments.
Revegetation		3,303	Revegetate 474,000 acres.
Improvements	230		Maintain existing improvements.
		4,109	Construct 3,000 miles fence, and 1,400 water developments.
Soil and Water Management	60		Management and administration of soil and water resources.
		12,110	Watershed rehabilitation on 302,000 acres, and 2,200 miles of gullies, roads, and streams. 30 flood prevention projects. Soil surveys on 1.8 million acres. Initiate inventories and water yield studies.
Mineral Claims, Leases and Other Land Uses (including land classification and ownership adjs.)	249		Examine mining claims. Administer mineral leases and special uses. Maintain property line posting. Administer land exchange.
		3,151	Prepare new status records system. Accelerate cadastral surveys. 2,900 miles property line surveys and posting. 18,000 sq. mi. topographic mapping.
Ranger District Management	585		General supervision and management of ranger districts.
Land Utilization Projects	64	1,349	Management and development of timber, recreation, range, wildlife and water resources on 424,000 acres of LU lands.
Forest Fire Protection	438		Intensified protection, including increased manpower and equipment - approximately 2½ times present level.
		1,952	Fuel reduction on 63,000 acres. Construct 75 heliports and spots.
Structural Improvements for Fire and General Purpose.	283		Maintenance of all existing improvements, including radio replacement.
		3,985	Construct 85 housing units and related improvements; 180 service buildings, lookouts and special structures; betterment of existing structures; new radio installations; replace 100 miles of telephone lines; construct and reconstruct 4 landing fields.
Insect and Disease Control	263		Intensified and accelerated detection, prevention and control of forest insects and disease to reduce current timber losses.
TOTAL - PROTECTION AND MANAGEMENT	3,714	52,156	
FOREST RESEARCH			
Forest and Range Mgmt. Research			
Silviculture	70		The amounts shown are for recurrent research programs of broad regional or national character that relate to national forest problems and which are headquartered in this state even though some of the work may be carried out in other states.
Watershed Management	100		
Range Management	80		
Recreation and Wildlife	60		
Forest Protection Research			
Forest Fire	60		
Forest Insect	80		
Forest Disease	75		
Construction, Research Facilities		234	For an office-laboratory and related facilities.
TOTAL - RESEARCH	525	234	
FOREST ROADS AND TRAILS			
Construction		17,800 1/	Construction and reconstruction of 2,100 miles roads, 240 miles trails, and assistance in construction of roads by timber purchasers.
Maintenance	677 2/		Maintenance of existing roads and trails
GRAND TOTAL - STATE OF NEW MEXICO	4,916	70,190	

1/ Timber purchasers will construct an estimated additional 530 miles of road costing approximately $3.8 million as the purchasers' share.

2/ Timber purchasers will maintain existing purchaser-constructed roads at an estimated annual cost of $71,000.

ITEM AND PROJECT	Recurrent Work Maximum Annual Level ($1,000)	Non-Recurrent Work Short Term Program Total ($1,000)	WORK NEEDED
FOREST PROTECTION AND MANAGEMENT			
Timber Resource Management			
Sales Administration & Management	236		Develop plans for 14,000 acres. Keep plans current. Cut 55 million bd. ft.
Reforestation and Stand Improvement		3,313	66,000 acres of cultural treatment. Plant 75,000 acres (including reinforcement and recent burn planting).
Recreation-Public Use	462		N.F. Outdoor Recreation Resources Review. Complete management and development plans. Maintenance, sanitation and cleanup of existing facilities.
		3,890	Construct 3,300 family units and related facilities.
Wildlife Habitat Management	35		Management and administration of wildlife resources.
		391	Improve 83,000 acres habitat, 240 miles stream, 25 acres lakes.
Range Resource Management Management	1		Management and administration of range resources.
Soil and Water Management	5		Management and administration of soil and water resources.
		267	Rehabilitate eroded lands and stabilize gullies, roads and streams. Soil surveys on 350,000 acres. Initiate inventories and water yield studies.
Mineral Leases and Other Land Uses (including Land Classification and Ownership Adjs.)	40		Administer mineral leases and special uses. Maintain property line posting. Administer land exchange.
		606	Prepare new status records system. Accelerate cadastral surveys. 3,000 miles property line surveys and posting. 2,500 sq. mi. topographic mapping. Consolidate ownership through purchase of small tracts.
Ranger District Management	150		General supervision and management of ranger districts.
Forest Fire Protection	190		Intensified protection, including increased manpower and equipment -- approximately 2-1/2 times present level.
		270	Fuel reduction on 256,000 acres. Construct heliports and spots.
Structural Improvements for Fire and General Purpose	122		Maintenance of all existing improvements, including radio replacement.
		528	Construction and betterment of housing units, service buildings, lookouts, special structures and related improvements, new radio installations; replace substandard telephone lines.
Insect and Disease Control	49		Intensified and accelerated detection, prevention and control of forest insects and disease to reduce current timber losses.
TOTAL - PROTECTION AND MANAGEMENT	1,290	9,265	
FOREST RESEARCH			
Forest and Range Management Research			
Forest Genetics and Planting	150		
Silviculture	75		
Timber Growth and Yields	50		
Watershed Management	310		
Recreation and Wildlife	175		The amounts shown are for recurrent research programs of broad regional or national character that relate to national forest problems and which are headquartered in this state even though some of the work may be carried out in other states.
Forest Protection Research			
Forest Insect	225		
Forest Disease	215		
Forest Products Utilization Research			
Forest Products	105		
Forest Resources Research			
Forest Surveys	20		
Forest Economics	50		
Marketing	60		
Construction, Research Facilities		2,132	Includes a major forest biology laboratory, a major forest soil and hydrology laboratory, a laboratory addition and related facilities.
TOTAL - RESEARCH PROGRAM	1,435	2,132	
FOREST ROADS AND TRAILS			
Construction		8,000 1/	Construction and reconstruction of 300 miles roads and 90 miles trails, and assistance in construction of roads by timber purchasers.
Maintenance	325 2/		Maintenance of existing roads and trails.
GRAND TOTAL STATE OF NORTH CAROLINA	3,051	19,397	

1/ Timber purchasers will construct an estimated additional 45 miles of road costing approximately $800,000 as the purchasers' share.

2/ Timber purchasers will maintain existing purchaser-constructed roads at an estimated annual cost of $7,000.

NORTH DAKOTA

ITEM AND PROJECT	Recurrent Work Maximum Annual Level ($1,000)	Non-Recurrent: Work Short-term Program Total ($1,000)	WORK NEEDED
FOREST PROTECTION AND MANAGEMENT			
Land Utilization Projects	410	2,249	Management and development of timber, recreation, range, wildlife and water resources on 1.1 million acres of LU lands.
Structural Improvements for Fire and General Purpose	5		Maintenance of all existing improvements.
		267	Construction and betterment of housing units, service buildings, lookouts, special structures, and related improvements.
TOTAL - PROTECTION AND MANAGEMENT	415	2,516	
GRAND TOTAL - STATE OF NORTH DAKOTA	415	2,516	

OHIO

ITEM AND PROJECT	Recurrent Work Maximum Annual Level ($1,000)	Non-Recurrent: Work Short-term Program Total ($1,000)	WORK NEEDED
FOREST PROTECTION AND MANAGEMENT			
Timber Resource Management			
Sales Administration and Management	68		Develop plans for 9,000 acres. Keep plans current. Cut 10 million bd. ft.
Reforestation and Stand Improvement		726	31,000 acres of cultural treatment. Plant 14,000 acres (including reinforcement and recent burn planting).
Recreation-Public Use	40		N.F. Outdoor Recreation Resource Review. Complete management and development plans. Maintenance, sanitation and cleanup of existing facilities.
		288	Construct 250 family units and related facilities.
Wildlife Habitat Management	11		Management and administration of wildlife resources.
		78	Improve wildlife habitat, streams and lakes. Develop small watering facilities for wildlife.
Soil and Water Management	4		Management and administration of soil and water resources.
		180	Rehabilitate eroded lands and stabilize gullies, roads and streams.
Mineral Leases and Other Land Uses (including land classification and ownership adjustments)	16		Administer mineral leases and special uses. Maintain property line posting. Administer land exchange.
		461	Prepare new status records system. Accelerate cadastral surveys. 1700 miles property line surveys and posting. 3,300 sq. mi. topographic mapping.
Ranger District Management	37		General supervision and management of ranger districts.
Forest Fire Protection	36		Intensified protection, including increased manpower and equipment--approximately 2-1/2 times present level.
		85	Fuel reduction on hazard areas and construct heliports and spots.
Structural Improvements for Fire and General Purpose	14		Maintenance of all existing improvements, including radio replacement.
		122	Construction and betterment of housing units, service buildings, lookouts, special structures, and related improvements; new radio installations.
Insect and Disease Control	16		Intensified and accelerated detection, prevention and control of forest insects and disease to reduce current timber losses.
TOTAL - PROTECTION AND MANAGEMENT	242	1,940	
FOREST RESEARCH			
Forest and Range Management Research			
Forest Genetics and Planting	125		The amounts shown are for recurrent research programs of broad regional or national character that relate to national forest problems and which are headquartered in this state even though some of the work may be carried out in other states.
Silviculture	25		
Timber Growth and Yields	50		
Watershed Management	90		
Forest Protection Research			
Forest Fire	20		
Forest Insect	275		
Forest Disease	200		
Forest Products Utilization Research			
Forest Products	160		
Forest Resources Research			
Forest Surveys	30		
Forest Economics	50		
Marketing	60		
Construction, Research Facilities		1,445	Includes a regional station headquarters office-laboratory and a laboratory addition.
TOTAL - RESEARCH PROGRAM	1,085	1,445	
FOREST ROADS AND TRAILS			
Construction		625	Construction and reconstruction 125 miles roads.
Maintenance	3		Maintenance of existing roads and trails.
GRAND TOTAL - STATE OF OHIO	1,330	4,010	

ITEM AND PROJECT	Recurrent Work Maximum Annual Level ($1,000)	Non-Recurrent Work Short-term Program Total ($1,000)	WORK NEEDED
FOREST PROTECTION AND MANAGEMENT			
Timber Resource Management			
Sales Administration and Management	65		Keep plans current. Cut 18 million bd. ft.
Reforestation and Stand Improvement		690	40,000 acres of cultural treatment.
Recreation-Public Use	8		N.F. Outdoor Recreation Resources Review. Complete management and development plans. Maintenance, sanitation and cleanup of existing facilities.
		67	Construct needed recreation facilities.
Wildlife Habitat Management	3		Management and administration of wildlife resources.
		27	Improve wildlife habitat and lakes. Develop small watering facilities for wildlife.
Range Resource Management Management	2		Management and administration of range resources.
		10	Complete analysis and plans for 13 allotments.
Revegetation		7	Revegetate 1,000 acres.
Improvements	1		Maintain existing improvements.
		14	Construct range fences and water developments.
Soil and Water Management	1		Management and administration of soil and water resources.
		30	Rehabilitate eroded lands and stabilize gullies, roads and streams. Soil surveys on 85,000 acres. Initiate inventories and water yield studies.
Mineral Leases and Other Land Uses (including land classification and ownership adjustments)	8		Administer mineral leases. Maintain property line posting.
		151	Prepare new status records system. Accelerate cadastral surveys, 500 miles property line surveys and posting. 600 sq. mi. topographic mapping. Consolidate ownership through purchase of small tracts.
Ranger District Management	30		General supervision and management of ranger districts.
Land Utilization Projects	78	286	Management and development of timber, recreation, range, wildlife and water resources on 81,000 acres of LU lands.
Forest Fire Protection	33		Intensified protection, including increased manpower and equipment--approximately 2-1/2 times present level.
		24	Fuel reduction on hazard areas.
Structural Improvements for Fire and General Purpose	7		Maintenance of all existing improvements, including radio replacement.
		104	Construction and betterment of housing units, service buildings, lookouts, special structures, and related improvements; new radio installations; replace substandard telephone lines.
Insect and Disease Control	30		Intensified and accelerated detection, prevention and control of forest insects and disease to reduce current timber losses.
TOTAL - PROTECTION AND MANAGEMENT	266	1,410	
FOREST ROADS AND TRAILS			
Construction		700 1/	Construction and reconstruction of 70 miles of roads, and assistance in construction of roads by timber purchasers.
Maintenance	32 2/		Maintenance of existing roads and trails.
GRAND TOTAL - STATE OF IKLAHOMA	298	2,110	

1/ Timber purchasers will construct additional access roads costing approximately $50,000 as the purchasers' share.

2/ Timber purchasers will maintain existing purchaser-constructed roads at an estimated annual cost of $1,000.

ITEM AND PROJECT	Recurrent Work Maximum Annual Level ($1,000)	Non-Recurrent Work Short-term Program Total ($1,000)	WORK NEEDED
FOREST PROTECTION AND MANAGEMENT			
Timber Resource Management			
Sales Administration and Mgt.	3,754		Develop plans for 1 million acres. Keep plans current. Cut 2.5 billion bd. ft.
Reforestation and Stand Improvement		40,481	890,000 acres of cultural treatment. Plant 487,000 acres (including reinforcement and recent burn planting).
Recreation-Public Use	1,251		N. F. Outdoor Recreation Resources Review. Complete management and development plans. Maintenance, sanitation and cleanup of existing facilities.
		9,254	Construct 7,900 family units and related facilities.
Wildlife Habitat Management	152		Management and administration of wildlife resources.
		2,055	Improve 80,000 acres habitat, 1,000 miles streams, 19,000 acres lakes, and small watering facilities for wildlife. Rodent control 641,000 acres.
Range Resource Management	345		Management and administration of range resources.
Management		1,004	Complete analysis and plans for 820 allotments.
Revegetation		2,939	Revegetate 410,000 acres.
Improvements	151		Maintain existing improvements.
		3,302	Construct 2,200 miles fence and 1,500 water developments.
Soil and Water Management	121		Management and administration of soil and water resources.
		6,982	Watershed rehabilitation on 68,000 acres, and 2,400 miles of gullies, roads and streams. 16 pollution control structures. Initiate inventories and water yield studies. Soil surveys on 2.7 million acres.
Mineral Claims, Leases and Other Land Uses (including land classification and ownership adjs.)	272		Examine mining claims. Administer mineral leases and special uses. Maintain property line postings. Administer land exchange.
		3,459	Prepare new status records system. Accelerate cadastral surveys. 11,000 miles property line surveys and posting. 14,200 sq. mi. topographic mapping.
Ranger District Management	1,106		General supervision and management of ranger districts.
Land Utilization Projects	30	154	Management and development of timber, recreation, range, wildlife and water resources on 106,000 acres of LU lands.
Forest Fire Protection	1,781		Intensified protection, including increased manpower and equipment - approximately 2-1/2 times present level.
		11,241	Fuel reduction on 104,000 acres and 900 miles of firebreaks. Construct 110 heliports and spots.
Structural Improvements for Fire and General Purpose	998		Maintenance of all existing improvements, including radio replacement.
		13,775	Construct 475 housing units and related improvements; 395 service buildings, lookouts and special structures; new radio installations; replace 129 miles of telephone lines; construct and reconstruct 3 landing fields.
Insect and Disease Control	773		Intensified and accelerated detection, prevention and control of forest insects and disease to reduce current timber losses.
TOTAL - PROTECTION AND MANAGEMENT	10,734	94,682	
FOREST RESEARCH			
Forest and Range Mgt. Research			
Forest Genetics and Planting	325		
Silviculture	425		
Timber Growth and Yields	100		
Watershed Management	120		
Range Management	160		
Recreation and Wildlife	240		
Forest Protection Research			The amounts shown are for recurrent research programs of broad regional or national character that relate to national forest problems and which are headquartered in this state even though some of the work may be carried out in other states.
Forest Fire	90		
Forest Insect	360		
Forest Disease	220		
Forest Products Utilization Research			
Forest Products	248		
Forest Engineering	250		
Forest Resources Research			
Forest Surveys	80		
Forest Economics	120		
Marketing	120		
Construction, Research Facilities		2,533	Includes a major forest biology laboratory, a major equipment development laboratory, office-laboratories at four other locations, and related facilities.
TOTAL - RESEARCH PROGRAM	2,858	2,533	
FOREST ROADS AND TRAILS			
Construction		162,315 1/	Construction and reconstruction of 5,000 miles roads, and 800 miles trail, and assistance in construction of roads by timber purchasers.
Maintenance	2,343 2/		Maintenance of existing roads and trails.
GRAND TOTAL - STATE OF OREGON	15,935	259,530	

1/ Timber purchasers will construct an estimated additional 16,800 miles of road costing approximately $233 million as the purchasers' share.

2/ Timber purchasers will maintain existing purchaser-constructed roads at an estimated annual cost of $1.5 million.

ITEM AND PROJECT	Recurrent Work Maximum Annual Level ($1,000)	Non-Recurrent Work Short-Term Program Total ($1,000)	WORK NEEDED
FOREST PROTECTION AND MANAGEMENT			
Timber Resource Management			
Sales Administration & Management	231		Develop plans for 40,000 acres. Keep plans current. Cut 40 million bd. ft.
Reforestation and Stand Improvement		1,923	100,000 acres of cultural treatment. Plant 6,700 acres (including reinforcement and recent burn planting).
Recreation-Public Use	74		N.F. Outdoor Recreation Resources Review. Complete management and development plans. Maintenance, sanitation and cleanup of existing facilities.
		1,315	Construct 1,100 family units and related facilities.
Wildlife Habitat Management	28		Management and administration of wildlife resources.
		1,015	Improve 11,000 acres habitat, 120 miles stream, 700 acres lakes and small watering facilities for wildlife.
Soil and Water Management	7		Management and administration of soil and water resources.
		176	Rehabilitate eroded lands and stabilize gullies, roads and streams. Pollution control structures and flood prevention projects. Soil surveys on 216,000 acres. Initiate inventories and water yield studies.
Mineral Leases and Other Land Uses (including land classification and ownership adjs.)	128		Administer mineral leases and special uses. Maintain property line posting. Administer land exchange.
		490	Prepare new status records system. Accelerate cadastral surveys. 1,400 miles property line surveys and posting. Consolidate ownership through purchase of small tracts.
Ranger District Management	56		General supervision and management of ranger districts.
Forest Fire Protection	42		Intensified protection, including increased manpower and equipment - approximately 2½ times present level.
		140	Fuel reduction on hazard areas and firebreaks.
Structural Improvements for Fire and General Purpose	22		Maintenance of all existing improvements, including radio replacement.
		386	Construction and betterment of housing units, service buildings, lookouts, special structures, and related improvements; new radio installations; replace substandard telephone lines.
Insect and Disease Control	6		Intensified and accelerated detection, prevention and control of forest insects and disease to reduce current timber losses.
TOTAL - PROTECTION AND MANAGEMENT	594	5,445	
FOREST RESEARCH			
Forest and Range Management Research			The amounts shown are for recurrent research programs of broad regional or national character that relate to national forest problems and which are headquartered in this state even though some of the work may be carried out in other states.
Forest Genetics and Planting	100		
Silviculture	75		
Timber Growth and Yields	50		
Recreation and Wildlife	200		
Forest Protection Research			
Forest Fire	20		
Forest Products Utilization Research			
Forest Products	110		
Forest Resources Research			
Forest Surveys	30		
Forest Economics	60		
Forest Production and Marketing	70		
Construction, Research Facilities		1,052	Includes a regional station headquarters office-laboratory, an office laboratory at another location, and related facilities.
TOTAL - RESEARCH PROGRAM	715	1,052	
FOREST ROADS AND TRAILS			
Construction		2,300 1/	Construction and reconstruction of 160 miles roads and 10 miles trails, and assistance in construction of roads by timber purchasers.
Maintenance	125 2/		Maintenance of existing roads and trails.
GRAND TOTAL - STATE OF PENNSYLVANIA	1,434	8,797	

1/ Timber purchasers will construct an estimated additional 100 miles of road costing approximately $215,000 as the purchasers' share.

2/ Timber purchasers will maintain existing purchaser-constructed roads at an estimated annual cost of $1,000.

ITEM AND PROJECT	Recurrent Work Maximum Annual Level ($1,000)	Non-Recurrent Work Short-Term Program Total ($1,000)	WORK NEEDED
FOREST PROTECTION AND MANAGEMENT			
Timber Resource Management			
Sales Administration and Management	258		Develop plans for 189,000 acres. Keep plans current. Cut 70 million board feet.
Reforestation and Stand Improvement		866	31,000 acres of cultural treatment. Plant 14,000 acres (including reinforcement and recent burn planting).
Recreation-Public Use	54		National Forest Outdoor Recreation Resources Review. Complete management and development plans. Maintenance, sanitation and cleanup of existing facilities.
		454	Construct 400 family units and related facilities.
Wildlife Habitat Management	20		Management and administration of wildlife resources.
		207	Improve 54,000 acres habitat, 50 miles stream, 50 acres lakes and small watering facilities for wildlife.
Range Resource Management Management	4		Management and administration of range resource.
		60	Complete analysis and plans for 65 allotments.
Revegetation		35	Revegetate 5,000 acres.
Improvements	2		Maintain existing improvements.
		74	Construct range fences, water developments.
Soil and Water Management	8		Management and administration of soil and water resource.
		406	Rehabilitate eroded lands and stabilize gullies, roads and streams. Soil surveys on 350,000 acres. Initiate inventories and water yield studies.
Mineral Leases and Other Land Uses (including land classification and ownership adjs.)	25		Administer mineral leases and special uses. Maintain property line posting. Administer land exchange.
		647	Prepare new status records system. Accelerate cadastral surveys. 900 miles property line surveys and posting. 1,800 square miles topographic mapping. Consolidate ownership through purchase of small tracts.
Ranger District Management	88		General supervision and management of ranger districts.
Forest Fire Protection	112		Intensified protection, including increased manpower and equipment--approximately 2½ times present level.
		267	Fuel reduction on 491,000 acres.
Structural Improvements for Fire and	68		Maintenance of all existing improvements, including radio replacement.
		333	Construction and betterment of housing units, service buildings, lookouts, special structures, and related improvements. New radio installations.
Insect and Disease Control	49		Intensified and accelerated detection, prevention and control of forest insects and disease to reduce current timber losses.
TOTAL - PROTECTION & MANAGEMENT	688	3,349	
FOREST RESEARCH			
Forest and Range Management Research Silviculture	75		The amounts shown are for recurrent research programs of broad regional or national character that relate to national forest problems and which are headquartered in this state even though some of the work may be carried out in other states.
Construction, Research Facilities		180	For an office-laboratory and related facilities.
TOTAL - RESEARCH PROGRAM	75	180	
FOREST ROADS AND TRAILS			
Construction		1,800 1/	Construction and reconstruction of 220 miles roads and assistance in construction of roads by timber purchasers.
Maintenance	119 2/		Maintenance of existing roads and trails.
GRAND TOTAL - STATE OF SOUTH CAROLINA	882	5,329	

1/ Timber purchasers will construct an estimated additional 20 miles of road costing approximately $150,000 as the purchasers' share.

2/ Timber purchasers will maintain existing purchaser-constructed roads at an estimated annual cost of $1,000.

ITEM AND PROJECT	Recurrent Work Maximum Annual Level ($1,000)	Non-Recurrent Work Short Term Program Total ($1,000)	WORK NEEDED
FOREST PROTECTION AND MANAGEMENT			
Timber Resource Management			
Sales Administration & Management	226		Develop plans for 99,000 acres. Keep plans current. Cut 80 million board feet.
Reforestation and Stand Improvement		7,793	397,000 acres of cultural treatment. Plant 43,000 acres (including reinforcement and recent burn planting).
Recreation-Public Use	271		National Forest Outdoor Recreation Resources Review. Complete management and development plans. Maintenance, sanitation and cleanup of existing facilities.
		2,082	Construct 1,800 family units and related facilities.
Wildlife Habitat Management	28		Management and administration of wildlife resources.
		367	Improve wildlife habitat, streams, lakes, and small watering facilities for wildlife. Rodent control 374,000 acres.
Range Resource Management Management	62		Management and administration of range resource.
		77	Complete analysis and plans for 105 allotments.
Revegetation		92	Revegetate 13,000 acres.
Improvements	38		Maintain existing improvements.
		235	Construct 160 miles fence, 75 water developments.
Soil and Water Management	17		Management and administration of soil and water resource.
		326	Watershed rehabilitation on 2,200 acres and 200 miles of gullies, roads and streams. Soil surveys on 237,000 acres. Initiate inventories and water yield studies.
Mineral Leases and Other Land Uses (including Land Classification and Ownership adjs.)	80		Examine mining claims, Administer mineral leases and special uses. Maintain property line posting. Administer land exchange.
		317	Prepare new status records system. Accelerate cadastral surveys. 750 miles property line surveys and posting. 535 sq. mi. topographic mapping.
Ranger District Management	208		General supervision and management of ranger districts.
Land Utilization Projects	297	624	Management and development of timber, recreation, range, wildlife and water resources on 885,000 acres of LU lands.
Forest Fire Protection	193		Intensified protection, including increased manpower and equipment--approximately 2½ times present level.
		1,551	Fuel reduction on 14,000 acres. Construct 34 heliports and spots.
Structural Improvements for Fire and General Purpose	78		Maintenance of all existing improvements, including radio replacement.
		722	Construction and betterment of housing units, service buildings, lookouts, special structures and related improvements. New radio installations, replace substandard telephone lines.
Insect and Disease Control	93		Intensified and accelerated detection, prevention and control of forest insects and disease to reduce current timber losses.
TOTAL - PROTECTION AND MANAGEMENT	1,591	14,186	
FOREST RESEARCH			
Forest and Range Management Research			
Forest Genetics and Planting	25		The amounts shown are for recurrent research programs of broad regional or national character that relate to national forest problems and which are headquartered in this state even though some of the work may be carried out in other states.
Silviculture	75		
Watershed Management	15		
Range Management	40		
Recreation and Wildlife	40		
Forest Products Utilization Research			
Forest Products	40		
Construction, Research Facilities		108	For a laboratory addition and related facilities.
TOTAL - RESEARCH PROGRAM	235	108	
FOREST ROADS AND TRAILS			
Construction		4,110 1/	Construction and reconstruction of 400 miles of road and assistance in construction of roads by timber purchasers.
Maintenance	188 2/		Maintenance of existing roads and trails.
GRAND TOTAL - STATE OF SOUTH DAKOTA	2,014	18,404	

1/ Timber purchasers will construct an estimated additional 80 miles of road costing approximately $785,000 as the purchasers' share.

2/ Timber purchasers will maintain existing purchaser-constructed roads at an estimated annual cost of $14,000.

ITEM AND PROJECT	Recurrent Work Maximum Annual Level ($1,000)	Non-Recurrent Work Short Term Program Total ($1,000)	WORK NEEDED
FOREST PROTECTION AND MANAGEMENT			
Timber Resource Management			
Sales Administration & Management	163		Keep plans current. Cut 35 million bd. ft.
Reforestation and Stand Improvement		3,007	155,000 acres of cultural treatment. Plant 12,000 acres (including reinforcement and recent burn planting).
Recreation-Public Use	307		N.F. Outdoor Recreation Resources Review. Complete management and development plans. Maintenance, sanitation and cleanup of existing facilities.
		2,593	Construct 2,200 family units and related facilities.
Wildlife Habitat Management	28		Management and administration of wildlife resources.
		241	Improve 46,000 acres habitat, 155 miles stream, 25 acres lakes.
Range Resource Management Management	2		Management and administration of range resources.
Soil and Water Management	4		Management and administration of soil and water resources.
		133	Rehabilitate eroded lands and stabilize gullies, roads and streams. Soil surveys on 200,000 acres. Initiate inventories and water yield studies.
Mineral Leases and Other Land Uses (including Land Classification and Ownership Adjs.)	53		Administer mineral leases and special uses. Maintain property line posting. Administer land exchange.
		241	Prepare new status records system. Accelerate cadastral surveys. 900 miles property line surveys and posting. 1,800 sq. mi. topographic mapping. Consolidate ownership through purchase of small tracts.
Ranger District Management	88		General supervision and management of ranger districts.
Forest Fire Protection	102		Intensified protection, including increased manpower and equipment -- approximately 2-1/2 times present level.
		165	Fuel reduction on 41,000 acres. Construct heliports and spots.
Structural Improvements for Fire and General Purpose	67		Maintenance of all existing improvements, including radio replacement.
		414	Construction and betterment of housing units, service buildings, lookouts, special structures and related improvements, new radio installations; replace substandard telephone lines.
Insect and Disease Control	65		Intensified and accelerated detection, prevention and control of forest insects and disease to reduce current timber losses.
TOTAL - PROTECTION AND MANAGEMENT	859	6,794	
FOREST RESEARCH			
Forest and Range Management Research Silviculture	25		The amounts shown are for recurrent research programs of broad regional or national character that relate to national forest problems and which are headquartered in this state even though some of the work may be carried out in other states.
Construction, Research Facilities		86	For an office-laboratory and related facilities.
TOTAL - RESEARCH PROGRAM	25	86	
FOREST ROADS AND TRAILS			
Construction		4,300 1/	Construction and reconstruction of 200 miles roads and 40 miles trails, and assistance in construction of roads by timber purchasers.
Maintenance	186 2/		Maintenance of existing roads and trails.
GRAND TOTAL - STATE OF TENNESSEE	1,070	11,180	

1/ Timber purchasers will construct additional access roads costing approximately $150,000.

2/ Timber purchasers will maintain existing purchaser-constructed roads at an estimated annual cost of $2,000.

ITEM AND PROJECT	Recurrent Work Maximum Annual Level ($1,000)	Non-Recurrent Work Short-Term Program Total ($1,000)	WORK NEEDED
FOREST PROTECTION AND MANAGEMENT			
Timber Resource Management			
Sales Administration & Management	356		Develop plans for 111,000 acres. Keep plans current. Cut 100 million bd. ft.
Reforestation and Stand Improvement		737	39,000 acres of cultural treatment. Plant 2,600 acres (including reinforcement and recent burn planting).
Recreation-Public Use	44		N.F. Outdoor Recreation Resources Review. Complete management and development plans. Maintenance, sanitation and cleanup of existing facilities.
		374	Construct 300 family units and related facilities.
Wildlife Habitat Management	15		Management and administration of wildlife resources.
		171	Improve wildlife habitat,lakes, and small watering facilities for wildlife.
Range Resource Management			
Management	11		Management and administration of range resources.
		95	Complete analysis and plans for 110 allotments.
Revegetation		54	Revegetate 8,000 acres.
Improvements	3		Maintenance of existing improvements.
		115	Construct range fences and water developments.
Soil and Water Management	4		Management and administration of soil and water resources.
		117	Rehabilitate eroded lands and stabilize gullies, roads and streams. Soil surveys on 165,000 acres. Initiate inventories and water yield studies.
Mineral Leases and Other Land Uses (including land classification and ownership adjs.)	39		Administer mineral leases and special uses. Maintain property line posting. Administer land exchange.
		455	Prepare new status records system. Accelerate cadastral surveys. 2500 miles property line surveys and posting. Consolidate ownership through purchase of small tracts.
Ranger District Management	120		General supervision and management of ranger districts.
Land Utilization Projects	129	1,581	Management and development of timber, recreation, range, wildlife and water resources on 117,000 acres of LU lands.
Forest Fire Protection	107		Intensified protection, including increased manpower and equipment - approximately 2½ times present level.
		170	Fuel reduction on 331,000 acres.
Structural Improvements for Fire and General Purpose	76		Maintenance of all existing improvements, including radio replacement.
		534	Construction and betterment of housing units, service buildings, lookouts, special structures and related improvements; new radio installations; replace substandard telephone lines.
Insect and Disease Control	44		Intensified and accelerated detection, prevention and control of forest insects and disease to reduce current timber losses.
TOTAL - PROTECTION AND MANAGEMENT	948	4,403	
FOREST RESEARCH			The amounts shown are for recurrent research programs of broad regional or national character that relate to national forest problems and which are headquartered in this state even though some of the work may be carried out in other states.
Forest and Range Management Research			
Forest Genetics and Planting	25		
Silviculture	25		
Recreation and Wildlife	50		
TOTAL - RESEARCH PROGRAM	100		
FOREST ROADS AND TRAILS			
Construction		2,100 1/	Construction and reconstruction of 145 miles roads and assistance in construction of roads by timber purchasers.
Maintenance	217 2/		Maintenance of existing roads and trails.
GRAND TOTAL - STATE OF TEXAS	1,265	6,503	

1/ Timber purchasers will construct additional access roads costing approximately $100,000 as the purchasers' share.

2/ Timber purchasers will maintain existing purchaser-constructed roads at an estimated annual cost of $3,000.

ITEM AND PROJECT	Recurrent Work Maximum Annual Level ($1,000)	Non-Recurrent Work Short Term Program Total ($1,000)	WORK NEEDED
FOREST PROTECTION AND MANAGEMENT			
Timber Resource Management			
Sales Administration and Management	351		Develop plans for 185,000 acres. Keep plans current. Cut 100 million bd. ft.
		8,461	363,000 acres of cultural treatment. Plant 47,000 acres (including reinforcement and recent burn planting).
Recreation-Public Use	1,298		N.F. Outdoor Recreation Resources Review. Complete management and development plans. Maintenance, sanitation and cleanup of existing facilities.
		10,940	Construct 9,300 family units and related facilities.
Wildlife Habitat Management	163		Management and administration of wildlife resources.
		840	Improve 186,000 acres habitat, 315 miles stream, 1,400 acres lakes, and small watering facilities for wildlife. Rodent control 185,000 acres.
Range Resource Management Management	413		Management and administration of range resources.
		771	Complete analysis and plans for 790 allotments.
Revegetation		4,881	Revegetate 698,000 acres.
Improvements	153		Maintain existing improvements.
		2,414	Construct 1,700 miles fence, 940 water developments.
Soil and Water Management	87		Management and administration of soil and water resources.
		12,172	Watershed rehabilitation on 183,000 acres, and 3,300 miles of gullies, roads and streams. 7 pollution control structures and 19 flood prevention projects. Initiate inventories and water yield studies. Soil surveys on 1.7 million acres.
Mineral Leases and Other Land Uses (including land classification and ownership adjs.)	246		Administer mineral leases and special uses. Maintain property line posting. Administer land exchange.
		2,379	Prepare new status records system. Accelerate cadastral surveys. 2,000 miles property line surveys and posting. 17,000 sq. ,i. topographic mapping.
Acquisition of Lands		45	Small tracts within Cache National Forest - 1,000 acres.
Ranger Distruct Management	587		General supervision and management of ranger districts.
Land Utilization Projects	19	31	Management and development of timber, recreation, range, wildlife and water resources on 53,000 acres of LU lands.
Forest Fire Protection	120		Intensified protection, including increased manpower and equipment - approximately 2½ times present level.
		792	Fuel reduction on 5,500 acres and 400 miles of firebreaks.
Structural Improvements for Fire	194		Maintenance of all existing improvements, including radio replacement.
		2,427	Construct 65 housing units and related improvements; 100 service buildings, lookouts, and special structures; betterment of existing structures; new radio installations; replace sub-standard telephone lines; construct and reconstruct 2 landing fields.
Insect and Disease Control	265		Intensified and accelerated detection, prevention and control of forest insects and diseases to reduce current timber losses.
TOTAL - PROTECTION AND MANAGEMENT	3,896	46,153	
FOREST RESEARCH			
Forest and Range Management Research			
Forest Genetics and Planting	25		
Silviculture	50		
Timber Growth and Yields	35		
Watershed Management	390		
Range Management	100		
Recreation and Wildlife	145		
Forest Protection Research			
Forest Fire	60		
Forest Insect	40		
Forest Disease	50		
Forest Products Utilization Res.			
Forest Products	78		
Forest Resources Research			
Forest Survey	40		
Forest Economics	120		
Forest Production & Marketing	140		
			The amounts shown are for current research programs of broad regional or national character that relate to national forest problems and which are headquartered in this state even though some of the work may be carried out in other states.
Construction, Research Facilities		2,378	Includes a regional station headquarters office-laboratory, a major erosion and hydraulics laboratory, and related facilities.
TOTAL - RESEARCH PROGRAM	1,273	2,378	
FOREST ROADS AND TRAILS			
Construction		12,600 1/	Construction and reconstruction of 970 miles roads and 530 miles trails and assistance in construction of roads by timber purchasers.
Maintenance	611 2/		Maintenance of existing roads and trails.
GRAND TOTAL - STATE OF UTAH	5,780	61,131	

1/ Timber purchasers will construct an estimated additional 260 miles of roads costing approximately $2.7 million as the purchasers' share.

2/ Timber purchasers will maintain existing purchaser-constructed roads at an estimated annual cost of $41,000.

ITEM AND PROJECT	Recurrent Work Maximum Annual Level ($1,000)	Non-Recurrent Work Short-Term Program Total ($1,000)	WORK NEEDED
FOREST PROTECTION AND MANAGEMENT			
Timber Resource Management			
Sales Administration & Management	127		Develop plans for 19,000 acres. Keep plans current. Cut 25 million board feet.
Reforestation and Stand Improvement		1,095	53,000 acres of cultural treatment. Plant 5,300 acres (including reinforcement and recent burn planting).
Recreation-Public Use	49		National Forest Outdoor Recreation Resources Review. Complete management and development plans. Maintenance, sanitation and cleanup of existing facilities.
		251	Construct 200 family units and related facilities.
Wildlife Habitate Management	7		Management and administration of wildlife resources.
		457	Improve 8,800 acres habitat, 35 miles stream, 182 acres lakes and small watering facilities for wildlife.
Soil and Water Management	4		Management and administration of soil and water resource.
		103	Watershed rehabilitation on eroded areas and flood prevention projects. Stabilize gullies, roads and streams. Soil surveys on 90,000 acres. Initiate inventories and water yield studies.
Mineral Leases and Other Land Uses	9		Administer mineral leases and special uses. Maintain property line posting.
		204	Prepare new status records system. Accelerate cadastral surveys. 600 miles property line surveys and posting. 1,000 square miles topographic mapping. Consolidate ownership through purchase of small tracts.
Ranger District Management	28		General supervision and management of ranger districts.
Forest Fire Protection	25		Intensified protection, including increased manpower and equipment--approximately 2½ times present level.
		67	Fuel reduction on 1,000 acres.
Structural Improvements for Fire	8		Maintenance of all existing improvements, including radio replacement.
		168	Construction of housing units, service buildings, lookouts, special structures and related improvements. New radio installations.
Insect and Disease Control	2		Intensified and accelerated detection, prevention and control of forest insects and disease to reduce current timber losses.
TOTAL - PROTECTION & MANAGEMENT	259	2,345	
FOREST RESEARCH			
Forest and Range Management Research			
Forest Genetics and Planting	75		The amounts shown are for recurrent research programs of broad regional or national character that relate to national forest problems and which are headquartered in this state even though some of the work may be carried out in other states.
Construction, Research Facilities		115	For an office-laboratory and related facilities.
TOTAL - RESEARCH PROGRAM	75	115	
FOREST ROADS AND TRAILS			
Construction		2,300 1/	Construction and reconstruction of 100 miles roads, 10 miles trail and assistance in construction of roads by timber purchasers.
Maintenance	94 2/		Maintenance of existing roads and trails.
GRAND TOTAL - STATE OF VERMONT	428	4,760	

1/ Timber purchasers will construct an estimated additional 40 miles of road costing approximately $130,000 as the purchasers' share.

2/ Timber purchasers will maintain existing purchaser-constructed roads at an estimated annual cost of $1,000.

ITEM AND PROJECTS	Recurrent Work Maximum Annual Level ($1,000)	Non-Recurrent Work Short-Term Program Total ($1,000)	WORK NEEDED
FOREST PROTECTION AND MANAGEMENT			
Timber Resource Management			
Sales Administration & Management	492		Develop plans for 132,000 acres. Keep plans current. Cut 85 million board feet.
Reforestation and Stand Improvement		5,691	241,000 acres of cultural treatment. Plant 38,000 acres (including reinforcement and recent burn planting).
Recreation-Public Use	274		National Forest Outdoor Recreation Resources Review. Complete management and development plans. Maintenance, sanitation and cleanup of existing facilities.
		1,816	Construct 1,500 family units and related facilities.
Wildlife Habitat Management	104		Management and administration of wildlife resources.
		1,985	Improve 45,000 acres habitat, 125 miles stream, 100 acres lakes, and small watering facilities for wildlife.
Range Resource Management			
Management	2		Management and administration of range resource.
		8	Complete analysis and plans for 7 allotments.
Revegetation		15	Revegetate 2,200 acres.
Improvements		4	Construct water developments.
Soil and Water Management	27		Management and administration of soil and water resource.
		658	Rehabilitate eroded lands and stabilize gullies, roads and streams. 12 pollution control structures and 17 flood prevention projects. Soil surveys on 648,000 acres. Initiate inventories and water yield studies.
Mineral Leases and Other Land Uses (including land classification and ownership adjs.)	162		Administer mineral leases and special uses. Maintain property line posting. Administer land exchange.
		1,470	Prepare new status records system. Accelerate cadastral surveys. 4,200 miles property line surveys and posting. 835 square miles topographic mapping. Consolidate ownership through purchase of small tracts.
Ranger District Management	182		General supervision and management of ranger districts.
Forest Fire Protection	265		Intensified protection, including increased manpower and equipment--approximately 2½ times present level.
		957	Fuel reduction on 23,000 acres and 600 miles of firebreaks. Construct heliports and spots.
Structural Improvements for Fire and General Purpose	67		Maintenance of all existing improvements, including radio replacement.
		1,424	Construct 25 housing units and related improvements; 90 service buildings, lookouts, and special structures; betterment of existing structures; new radio installations; replace substandard telephone lines.
Insect and Disease Control	146		Intensified and accelerated detection, prevention and control of forest insect and disease to reduce current timber losses.
TOTAL - PROTECTION & MANAGEMENT	1,721	14,028	
FOREST RESEARCH			
Forest and Range Management Research			
Silviculture	50		The amounts shown are for recurrent research programs of broad regional or national character that relate to national forest problems and which are headquartered in this state even though some of the work may be carried out in other states.
Watershed Management	30		
Construction, Research Facilities		110	For an office-laboratory and related facilities.
TOTAL - RESEARCH PROGRAM	80	110	
FOREST ROADS AND TRAILS			
Construction		8,390 1/	Construction and reconstruction of 640 miles roads and 25 miles trails and assistance in construction of roads by timber purchasers.
Maintenance	257 2/		Maintenance of existing roads and trails.
GRAND TOTAL - STATE OF VIRGINIA	2,058	22,528	

1/ Timber purchasers will construct an estimated additional 350 miles of road costing approximately $520,000 as the purchasers' share.

2/ Timber purchasers will maintain existing purchaser-constructed roads at an estimated annual cost of $2,000.

ITEM AND PROJECTS	Recurrent Work Maximum Annual Level ($1,000)	Non-Recurrent Work Short-Term Program Total ($1,000	WORK NEEDED
FOREST PROTECTION AND MANAGEMENT			
Timber Resource Management			
Sales Administration & Management	2,241		Develop plans for 553,000 acres. Keep plans current. Cut 1.5 billion board feet.
Reforestation and Stand Improvement		14,697	451,000 acres of cultural treatment. Plant 140,000 acres (including reinforcement and recent burn planting).
Recreation-Public Use	891		National Forest Outdoor Recreation Resources Review. Complete management and development plans. Maintenance, sanitation and cleanup of existing facilities.
		6,430	Construct 5,500 family units and related facilities.
Wildlife Habitat Management	128		Management and administration of wildlife resources.
		1,286	Improve 36,000 acres habitat, 800 miles stream, 10,000 acres lakes and small watering facilities for wildlife. Rodent control 250,000 acres.
Range Resource Management			
Management	103		Management and administration of range resource.
		287	Complete analysis and plans for 251 allotments.
Revegetation		640	Revegetate 102,000 acres.
Improvements	36		Maintain existing improvements.
		826	Construct 600 miles fence, 300 water developments.
Soil and Water Management	47		Management and administration of soil and water resource.
		2,287	Watershed rehabilitation on 11,000 acres and 1,000 miles of gullies, roads and streams. Pollution control structures. Soil surveys on 1.7 million acres. Initiate inventories and water yield studies.
Mineral Leases and Other Land Uses (including land classification and ownership adjs.)	174		Examine mining claims. Administer mineral leases and special uses. Maintain property line posting. Administer land exchange.
		2,627	Prepare new status records system. Accelerate cadastral surveys. 7,300 miles property line surveys and posting. 10,800 square miles topographic mapping.
Ranger District Management	611		General supervision and management of ranger districts.
Forest Fire Protection	968		Intensified protection, including increased manpower and equipment--approximately 2½ times present level.
		5,161	Fuel reduction on 47,000 acres and 700 miles firebreaks. Construct 190 heliports and spots.
Structural Improvements for Fire and General Purposes	435		Maintenance of all existing improvements, including radio replacement.
		7,451	Construct 230 housing units and related improvements; 185 service buildings, lookouts, and special structures; betterment of existing structures; new radio installations; replace 434 miles of telephone lines; construct and reconstruct 3 landing fields.
Insect and Disease Control	588		Intensified and accelerated detection, prevention and control of forest insects and disease to reduce current timber losses.
TOTAL - PROTECTION & MANAGEMENT	6,222	41,692	
FOREST RESEARCH			
Forest and Range Management Research			
Forest Genetics and Planting	50		The amounts shown are for recurrent research programs of broad regional or national character that relate to national forest problems and which are headquartered in this state even though some of the work may be carried out in other states.
Silviculture	225		
Watershed Management	350		
Range Management	60		
Recreation and Wildlife	70		
Forest Protection Research			
Forest Disease	70		
Construction, Research Facilities		1,069	For a major forest soil and hydrology laboratory.
TOTAL - RESEARCH PROGRAM	825	1,069	
FOREST ROADS AND TRAILS			
Construction		82,350 1/	Construction and reconstruction of 2,700 miles roads, 660 miles trails and assistance in construction of roads by timber purchasers.
Maintenance	1,696 2/		Maintenance of existing roads and trails.
GRAND TOTAL - STATE OF WASHINGTON	8,743	125,111	

1/ Timber purchasers will construct an estimated additional 6,400 miles of road costing approximately $96 million as the purchasers' share.

2/ Timber purchasers will maintain existing purchaser-constructed roads at an estimated cost of $612,000.

ITEM AND PROJECT	Recurrent Work Maximum Annual Level ($1,000)	Non-Recurrent Work Short-term Program Total ($1,000)	WORK NEEDED
FOREST PROTECTION AND MANAGEMENT			
Timber Resource Management			
Sales Administration and Mgt.	311		Develop plans for 68,000 acres. Keep plans current. Cut 55 million bd. ft.
Reforestation and Stand Improvement		3,632	168,000 acres of cultural treatment. Plant 19,000 acres (including reinforcement and recent burn planting.)
Recreation-Public Use	192		N. F. Outdoor Recreation Resources Review. Complete management and development plans. Maintenance, sanitation and cleanup of existing facilities.
		814	Construct 700 family units and related facilities.
Wildlife Habitat Management	47		Management and administration of wildlife resources.
		1,374	Improve 26,000 acres habitat, 180 miles stream, 100 acres lakes, and small watering facilities for wildlife.
Range Resource Management	12		Management and administration of range resources.
Management		40	Complete analysis and plans for 40 allotments.
Revegetation		83	Revegetate 12,000 acres.
Improvements	1		Maintain existing improvements.
		20	Construct 40 water developments.
Soil and Water Management	10		Management and administration of soil and water resources.
		708	Rehabilitate eroded lands and stabilize gullies, roads and streams. 35 pollution control structures and flood prevention projects. Soil surveys on 342,000 acres. Initiate inventories and water yield studies.
Mineral Leases and Other Land Uses (including land classification and ownership adjs.)	104		Administer mineral leases and special uses. Maintain property line postings. Administer land exchange.
		775	Prepare new status records system. Accelerate cadastral surveys. 2,200 miles property line surveys and posting. 3,900 sq. mi. topographic mapping. Consolidate ownership through purchase of small tracts.
Ranger District Management	84		General supervision and management of ranger districts.
Forest Fire Protection	100		Intensified protection, including increased manpower and equipment - approximately 2-1/2 times present level.
		426	Fuel reduction on 14,000 acres and 200 miles of firebreaks. Construct heliports and spots.
Structural Improvements for Fire and General Purpose	46		Maintenance of all existing improvements, including radio replacement.
		742	Construction and betterment of housing units; service buildings, lookouts, special structures, and related improvements; new radio installations; replace substandard telephone lines.
Insect and Disease Control	42		Intensified and accelerated detection, prevention and control of forest insects and disease to reduce current timber losses.
TOTAL - PROTECTION AND MANAGEMENT	949	8,614	
FOREST RESEARCH			
Forest and Range Mgt. Research			
Silviculture	50		The amounts shown are for recurrent research programs of broad regional or national character that relate to national forest problems and which are headquartered in this state even though some of the work may be carried out in other states.
Watershed Management	70		
Forest Products Utilization Research			
Forest Engineering	250		
Construction, Research Facilities		84	For an office-laboratory and related facilities.
TOTAL - RESEARCH PROGRAM	370	84	
FOREST ROADS AND TRAILS			
Construction		6,420 1/	Construction and reconstruction of 450 miles roads, 25 miles trails, and assistance in construction of roads by timber purchasers.
Maintenance	226 2/		Maintenance of existing roads and trails.
GRAND TOTAL - STATE OF WEST VIRGINIA	1,545	15,118	

1/ Timber purchasers will construct an estimated additional 200 miles of road costing approximately $435,000 as the purchasers' share.

2/ Timber purchasers will maintain existing purchaser-constructed roads at an estimated annual cost of $1,000.

ITEM AND PROJECT	Recurrent Work Maximum Annual Level ($1,000)	Non-Recurrent Work Short Term Program Total ($1,000)	WORK NEEDED
FOREST PROTECTION AND MANAGEMENT			
Timber Resource Management			
Sales Administration and Management	304		Develop plans for 136,000 acres. Keep plans current. Cut 110 million ft. bd.
Reforestation and Stand Improvement		11,684	341,000 acres of cultural treatment. Plant 147,000 acres (including reinforcement and recent burn planting).
Recreation-Public Use	104		N.F. Outdoor Recreation Resources Review. Complete management and development plans. Maintenance, sanitation and cleanup of existing facilities.
		667	Construct 600 family units and related facilities.
Wildlife Habitat Management	45		Management and administration of wildlife resources.
		350	Improve 24,000 acres habitat, 115 miles stream, 700 acres lakes, and small watering facilities for wildlife. Rodent control 80,000 acres.
Soil and Water Management	3		Management and administration of soil and water resources.
		127	Rehabilitate eroded lands and stabilize gullies, roads, and streams. Soil surveys on 700,000 acres. Initiate inventories and water yield studies.
Mineral Leases and Other Land Uses (including land classification and ownership adjustments)	52		Administer mineral leases and special uses. Maintain property line posting. Administer land exchange.
		811	Prepare new status records system. Accelerate cadastral surveys. 3200 miles property line surveys and posting.
Ranger District Management	138		General supervision and management of ranger districts.
Forest Fire Protection	129		Intensified protection, including increased manpower and equipment - approximately 2½ times present level.
		1,183	Fuel reduction on 7,000 acres and 300 miles of firebreaks. Construct heliports and spots.
Structural Improvements for Fire and General Purposes	75		Maintenance of all existing improvements, including radio replacement.
		417	Construction and betterment of housing units, service buildings, lookouts, special structures, and related improvements. Replace substandard telephone lines.
Insect and Disease Control	109		Intensified and accelerated detection, prevention and control of forest insects and disease to reduce current timber losses.
TOTAL - PROTECTION AND MANAGEMENT	959	15,239	
FOREST RESEARCH			
Forest and Range Mgt. Research			
Forest Genetics and Planting	200		The amounts shown are for recurrent research programs of broad regional or national
Silviculture	50		character that relate to national forest problems and which are headquartered in this
Recreation and Wildlife	60		state even though some of the work may be carried out in other states.
Forest Products Utilization Res.			
Forest Products	3,890		
Construction, Research Facilities		7,913	For expansion of the Forest Products Laboratory at Madison, Wisconsin, and research laboratory facilities at two other locations.
TOTAL - RESEARCH PROGRAM	4,290	7,913	
FOREST ROADS AND TRAILS			
Construction		8,805 1/	Construction and reconstruction of 1,620 miles roads and assistance in construction of roads by timber purchasers.
Maintenance	309 2/		Maintenance of existing roads and trails.
GRAND TOTAL - STATE OF WISCONSIN	5,558	31,957	

1/ Timber purchasers will construct an estimated additional 300 miles of road costing approximately $1 million as the purchasers' share.

2/ Timber purchasers will maintain existing purchaser-constructed roads at an estimated annual cost of $5,000.

ITEM AND PROJECT	Recurrent Work Maximum Annual Level ($1,000)	Non-Recurrent Work Short-Term Program Total ($1,000)	WORK NEEDED
FOREST PROTECTION AND MANAGEMENT			
Timber Resources Management			
Sales Administration & Management	549		Develop plans for 285,000 acres. Keep plans current. Cut 180 million bd. ft.
Reforestation and Stand Improvement		4,279	212,000 acres of cultural treatment. Plant 26,000 acres (including reinforcement and recent burn planting).
Recreation-Public Use	617		N.F. Outdoor Recreation Resources Review. Complete management and development plans. Maintenance, sanitation and cleanup of existing facilities.
		4,344	Construct 3,700 family units and related facilities.
Wildlife Habitat Management	134		Management and administration of wildlife resources.
		741	Improve 64,000 acres habitat, 360 miles stream, 1,100 acres lakes and small watering development facilities for wildlife. Rodent control 216,000 acres.
Range Resource Management			
Management	208		Management and administration of range resources.
		424	Complete analysis and plans for 525 allotments.
Revegetation		1,962	Revegetate 280,000 acres.
Improvements	49		Maintenance of existing improvements.
		979	Construct 700 miles fences; 200 water developments.
Soil and Water Management	72		Management and administration of soil and water resources.
		5,399	Watershed rehabilitation on 69,000 acres, and 1,600 miles of gullies, roads and streams and 50 flood prevention projects. Soil surveys on 1.5 million acres. Initiate inventories and water yield studies.
Mineral Claims, Leases and Other Land Uses (including land classification and ownership adjs.)	164		Examine minining claims, Administer mineral leases and special uses. Maintain property line posting. Administer land exchange.
		2,912	Prepare new status records system. Accelerate cadastral surveys. 3,300 miles property line surveys and posting. 14,400 sq. mi. topographic mapping.
Ranger District Management	449		General supervision and management of ranger districts.
Land Utilization Projects	136	397	Management and development of timber recreation, range, wildlife and water resources on 573,000 acres of LU lands.
Forest Fire Protection	241		Intensified protection, including increased manpower and equipment - approximately 2½ times present level.
		1,206	Fuel reduction on 7,800 acres. Construct 30 heliports and spots.
Structural Improvements for Fire and General Purpose	257		Maintenance of all existing improvements, including radio replacement.
		1,776	Construct 43 housing units and related improvements; 69 service buildings, lookouts and special structures; betterment of existing structures; new radio installations; replace 110 miles of substandard telephone lines.
Insect and Disease Control	326		Intensified and accelerated detection, prevention and control of forest insects and disease to reduce current timber losses.
TOTAL - PROTECTION AND MANAGEMENT	3,202	24,419	
FOREST RESEARCH			
Forest and Range Management Research			The amounts shown are for recurrent research programs of broad regional or national character that
Watershed Management	70		relate to national forest problems and which are h[illegible]artered in this state even though some of
Range Management	70		the work may be carried out in other states.
Recreation and Wildlife	30		
Construction, Research Facilities		193	Includes office-laboratory and related facilities [illegible]wo locations.
TOTAL - RESEARCH PROGRAM	170	193	
FOREST ROADS AND TRAILS			
Construction		17,826 1/	Construction and reconstruction of 1,600 miles roads, 420 miles trails, and assistance in construction of roads by timber purchasers.
Maintenance	560		Maintenance of existing roads and trails.
GRAND TOTAL - STATE OF WYOMING	3,932	42,438	

1/ Timber purchasers will construct an estimated additional 240 miles of road costing approximately 2.5 million as the purchasers' share.

2/ Timber purchasers will maintain existing purchaser-constructed roads at an estimated annual cost of $32,000.

CONNECTICUT, KANSAS, NEW YORK AND PUERTO RICO

ITEM AND PROJECT	Recurrent Work Maximum Annual Level ($1,000)	Non-Recurrent Work Short-Term Program Total ($1,000)	WORK NEEDED
FOREST PROTECTION AND MANAGEMENT			
Land Utilization Projects	86	393	Management and development of timber, recreation, range, wildlife and water resources on 121,000 acres of LU lands.
TOTAL - PROTECTION & MANAGEMENT	86	393	
FOREST RESEARCH			
Forest Protection Research			
Forest Insects	75		
Forest Disease	20		The amounts shown are for recurrent research programs of broad regional or national character that relate to national forest problems and to management of forests and utilization of forest products on the federally owned lands of Puerto Rico.
Forest and Range Management Research			
Forest Genetics & Planting	20		
Silviculture	20		
Watershed Management	20		
Forest Resources Research			
Forest Economics	20		
TOTAL - RESEARCH PROGRAM	175		
FOREST ROADS AND TRAILS			
Construction		2,000	Construction and reconstruction of access roads and trails.
GRAND TOTAL - STATES OF CONNECTICUT, KANSAS, AND NEW YORK AND PUERTO		2,393	